

# TEXAS DEPARTMENT OF INSURANCE

Engineering Services Program / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104  
 Phone No. (512) 322-2212 Fax No. (512) 463-6693

**PRODUCT EVALUATION**  
 WIN-1923

Effective Date: August 1, 2014  
 Reevaluation Date: **February 2016**

The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**.

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code and the Texas Engineering Practice Act.

**GTI and GTO Vinyl Inswing and Outswing Transoms, Non-Impact Resistant**, manufactured by

**Nan Ya Plastics Corporation USA**  
 8989 North Loop East  
 Houston, Texas 77029  
 Telephone: (713) 674-7822

**General Description:**

System	Description	Label Rating	Design Pressure Rating
1	GTI 6020 Inswing Transom	TR-LC80 71 x 24	+80 / -80 psf
2	GTI 12020 Inswing Transom	TR-R75 145 x 24	+75 / -75 psf
3	GTO 6020 Outswing Transom	TR-LC80 71 x 24	+80 / -80 psf
4	GTO 12020 Outswing Transom	TR-R75 145 x 24	+75 / -75 psf

**Product Dimensions:**

System	Overall Size	Fixed Glass Daylight Opening Size
1	71.25" x 24.00"	68.31" x 21.13"
2	145.38" x 24.00"	Three (3): 46.40" x 21.13"
3	71.25" x 24.00"	68.31" x 21.13"
4	145.38" x 24.00"	Three (3): 46.40" x 21.13"

**Product Identification (Certification Agency Label on Door):**

System		
1	Certification Agency	NAMI
	Manufacturer's Name or Code Name	Nan Ya Plastics USA
	Product Name	GTI 6020 Vinyl Glazed Transom Fixed Window
	Test Standards	AAMAWDMA/CSA 101/I.S.2/A440-05
2	Certification Agency	NAMI
	Manufacturer's Name or Code Name	Nan Ya Plastics USA
	Product Name	GTI 12020 Vinyl Glazed Transom Fixed Window
	Test Standards	AAMAWDMA/CSA 101/I.S.2/A440-05

**Product Identification (Certification Agency Label on Door) - Continued:**

System		
3	Certification Agency	NAMI
	Manufacturer's Name or Code Name	Nan Ya Plastics USA
	Product Name	GTO 6020 Vinyl Glazed Transom Fixed Window
	Test Standards	AAMAWDMA/CSA 101/I.S.2/A440-05
4	Certification Agency	NAMI
	Manufacturer's Name or Code Name	Nan Ya Plastics USA
	Product Name	GTO 12020 Vinyl Glazed Transom Fixed Window
	Test Standards	AAMAWDMA/CSA 101/I.S.2/A440-05

**Impact Resistance:**

Impact Resistant	Requirement
Yes	These products satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the <b>Inland I</b> and <b>Seaward zone</b> . The assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded.

**Qualified Configurations (Systems 2 and 4):** O / OO / OOO.

**Installation:**

**Design Drawings:**

**System 1:** The window shall be installed in accordance with Drawing No. 08-02132, titled "GTI 6020 Inswing Transom Non-Impact," sheets 1 through 2 of 2, dated July 11, 2013, signed and sealed by Luis R. Lomas., P.E on July 11, 2013. The stated drawings will be referred to as the approved drawings in this evaluation report.

**System 2:** The window shall be installed in accordance with Drawing No. 08-02131, titled "GTI 12020 Inswing Transom Non-Impact," sheets 1 through 3 of 3, dated July 15, 2013, signed and sealed by Luis R. Lomas., P.E on July 15, 2013. The stated drawings will be referred to as the approved drawings in this evaluation report.

**System 3:** The window shall be installed in accordance with Drawing No. 08-02134, titled "GTO 6020 Outswing Transom Non-Impact," sheets 1 through 2 of 2, dated July 16, 2013, signed and sealed by Luis R. Lomas., P.E on July 16, 2013. The stated drawings will be referred to as the approved drawings in this evaluation report.

**System 4:** The window shall be installed in accordance with Drawing No. 08-02133, titled "GTO 12020 Outswing Transom Non-Impact," sheets 1 through 3 of 3, dated July 11, 2013, signed and sealed by Luis R. Lomas., P.E on July 11, 2013. The stated drawings will be referred to as the approved drawings in this evaluation report.

**Wall Framing Construction:** The doors may be mounted to several types of wall framing construction. The types of wall framing construction allowed include:

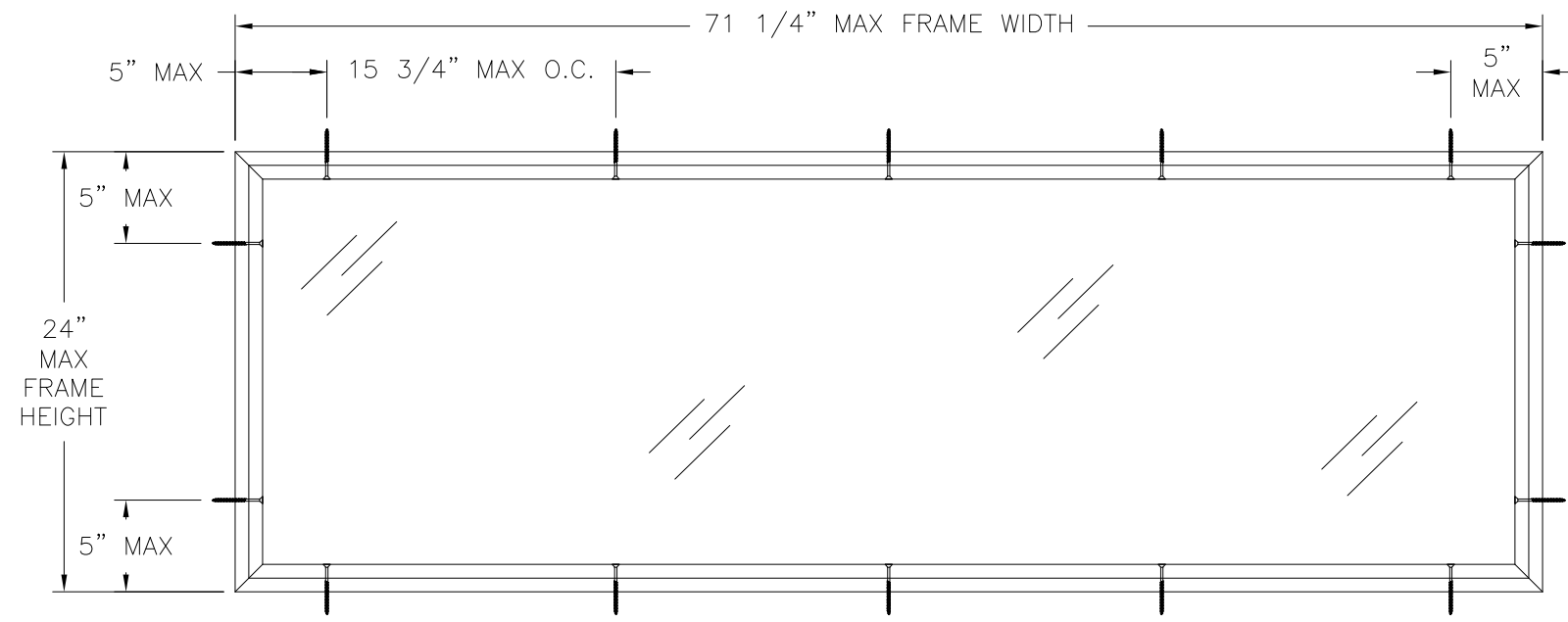
- Concrete (minimum compressive strength: 3,192 psi)
- Hollow concrete block; ASTM C-90, Grade N, Type 1 (or greater)
- Wood dimension lumber (minimum Spruce-Pine-Fir)

**Installation Details:**

- Refer to the approved drawings for installation details.
- The approved drawings indicate the minimum embedment depths for the fasteners and the minimum edge distances (minimum distance fastener must be from the edge of the substrate material) for the fasteners.

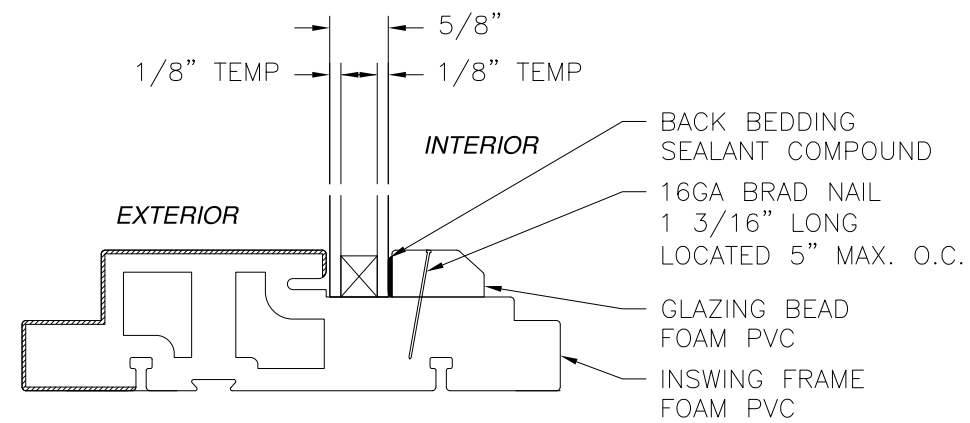
**Note:** The manufacturer's installation instructions shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



**GTI 6020 INSWING TRANSOM**  
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±80.0PSF	NONE



**GLAZING DETAIL**

**NOTES:**

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE 2006 IBR AND 2006 IRC WITH STATE OF TEXAS MODIFICATIONS.
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 1 FOR GLASS OPTIONS.
7. APPROVED IMPACT PROTECTIVE SYSTEM IS 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.

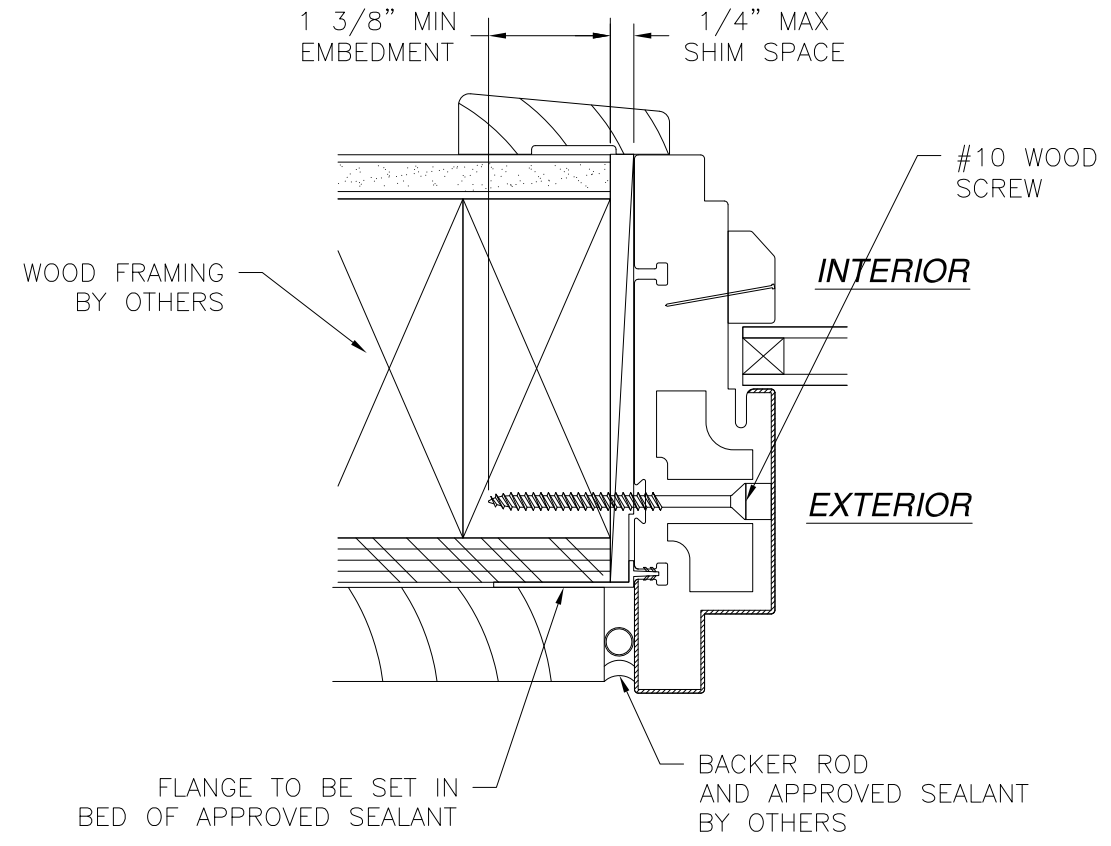
TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	ELEVATIONS AND NOTES
2	INSTALLATION DETAILS

<p>NAN YA PLASTICS CORP. USA 8989 NORTH LOOP EAST HOUSTON, TX 77029</p>		
<p>GTI 6020 INSWING TRANSOM NON-IMPACT ELEVATION AND NOTES</p>		
DRAWN: V.L.	DWG NO. 08-02132	REV -
SCALE NTS	DATE 07/11/13	SHEET 1 OF 2

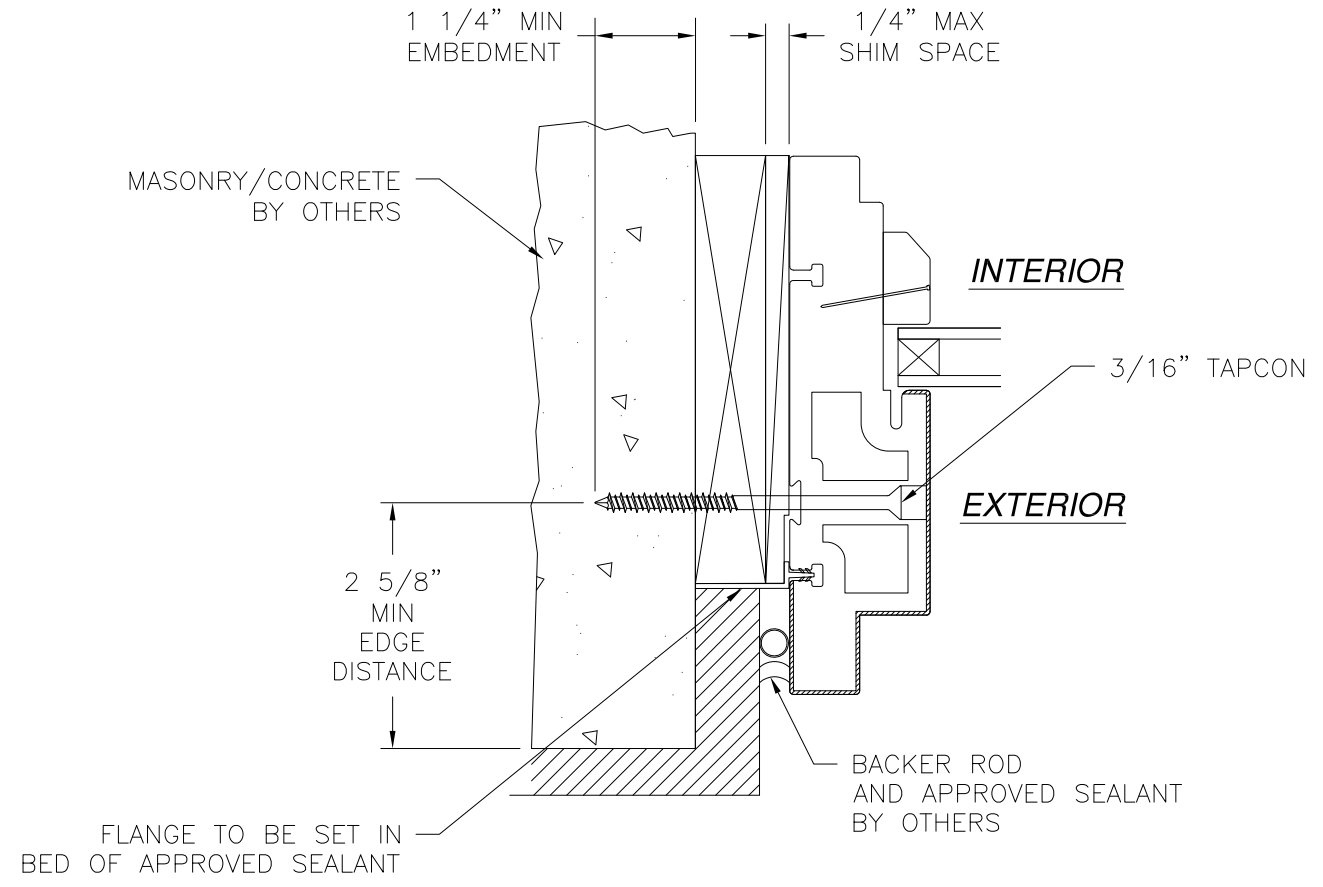
SIGNED: 07/11/2013

Luis R. Lomas P.E.  
TX No.: 101889

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

SIGNED: 07/11/2013

NAN YA PLASTICS CORP. USA 8989 NORTH LOOP EAST HOUSTON, TX 77029		
GTI 6020 INSWING TRANSOM NON-IMPACT INSTALLATION DETAILS		
DRAWN: V.L.	DWG NO. 08-02132	REV -
SCALE NTS	DATE 07/11/13	SHEET 2 OF 2

Luis R. Lomas P.E.  
 TX No.: 101889

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED


NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE 2006 IBC AND 2006 IRC WITH STATE OF TEXAS MODIFICATIONS.
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 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: 07/15/2013

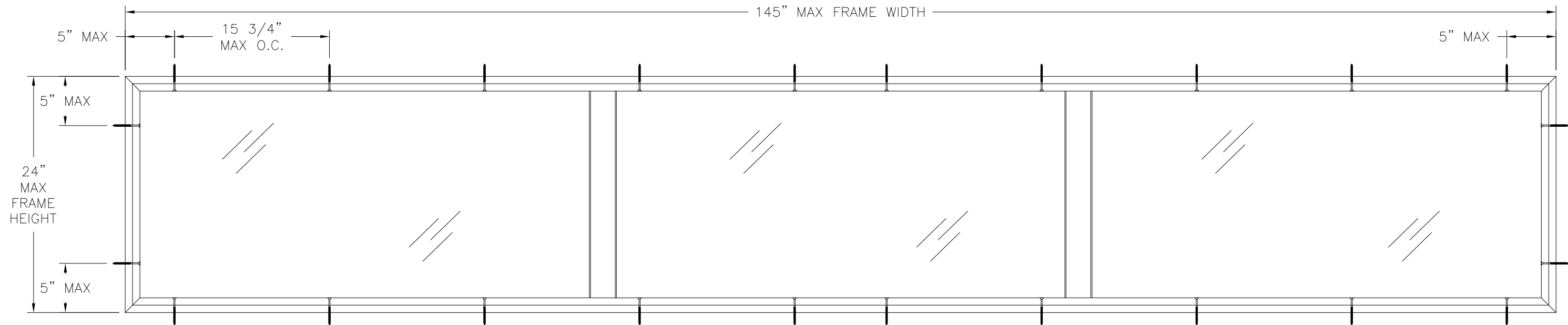
TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1 - 2	ELEVATIONS AND NOTES
3	INSTALLATION DETAILS

NAN YA PLASTICS CORP. USA 8989 NORTH LOOP EAST HOUSTON, TX 77029		
GTI 12020 INSWING TRANSOM NON-IMPACT NOTES		
DRAWN: V.L.	DWG NO. 08-02131	REV -
SCALE NTS	DATE 07/15/13	SHEET 1 OF 3



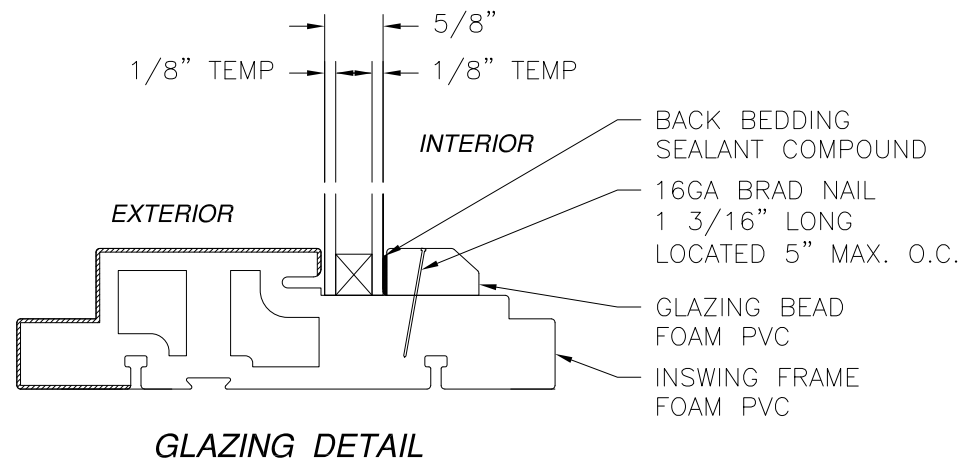
Luis R. Lomas P.E.  
TX No.: 101889

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

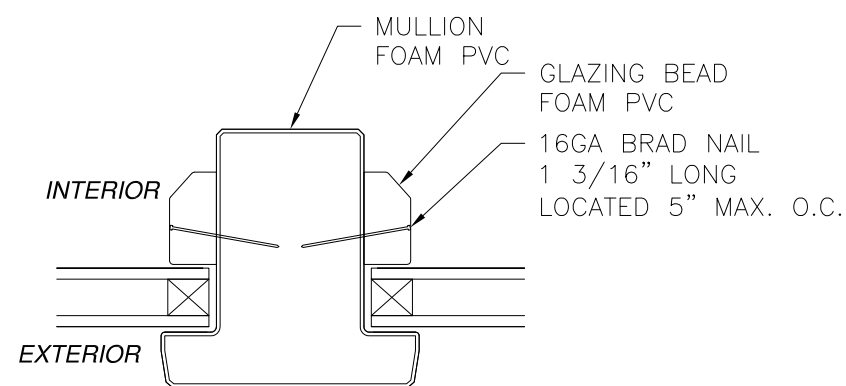


**GTI 12020 INSWING TRANSOM**  
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±75.0PSF	NONE



**GLAZING DETAIL**



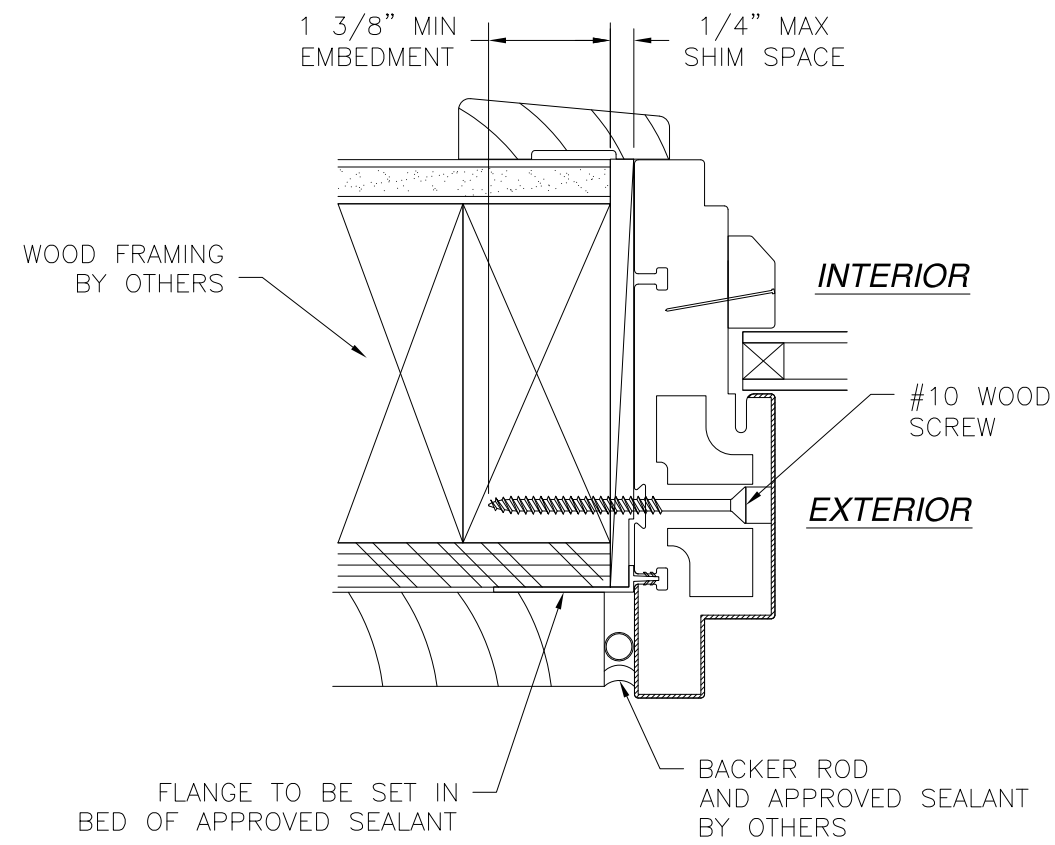
**MULLION DETAIL**

SIGNED: 07/15/2013

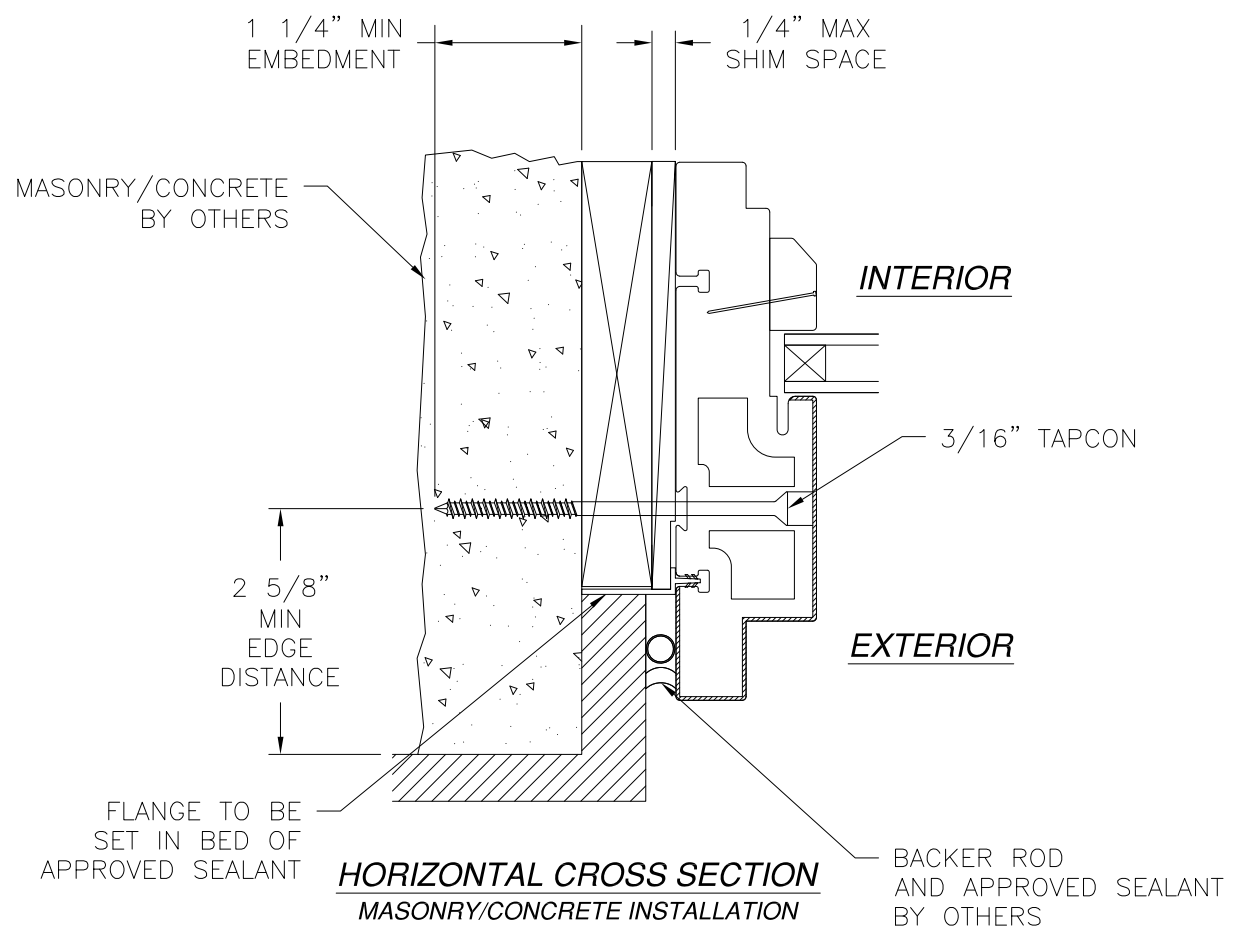
<p>NAN YA PLASTICS CORP. USA 8989 NORTH LOOP EAST HOUSTON, TX 77029</p>		
<p>GTI 12020 INSWING TRANSOM NON-IMPACT ELEVATION AND DETAILS</p>		
<p>DRAWN: V.L.</p>	<p>DWG NO. 08-02131</p>	<p>REV -</p>
<p>SCALE NTS</p>	<p>DATE 07/15/13</p>	<p>SHEET 2 OF 3</p>

Luis R. Lomas P.E.  
TX No.: 101889

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

SIGNED: 07/15/2013

NAN YA PLASTICS CORP. USA 8989 NORTH LOOP EAST HOUSTON, TX 77029		
GTI 12020 INSWING TRANSOM NON-IMPACT INSTALLATION DETAILS		
DRAWN: V.L.	DWG NO. 08-02131	REV -
SCALE NTS	DATE 07/15/13	SHEET 3 OF 3

Luis R. Lomas P.E.  
 TX No.: 101889



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE 2006 IBC AND 2006 IRC WITH STATE OF TEXAS MODIFICATIONS.
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 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: 07/11/2013

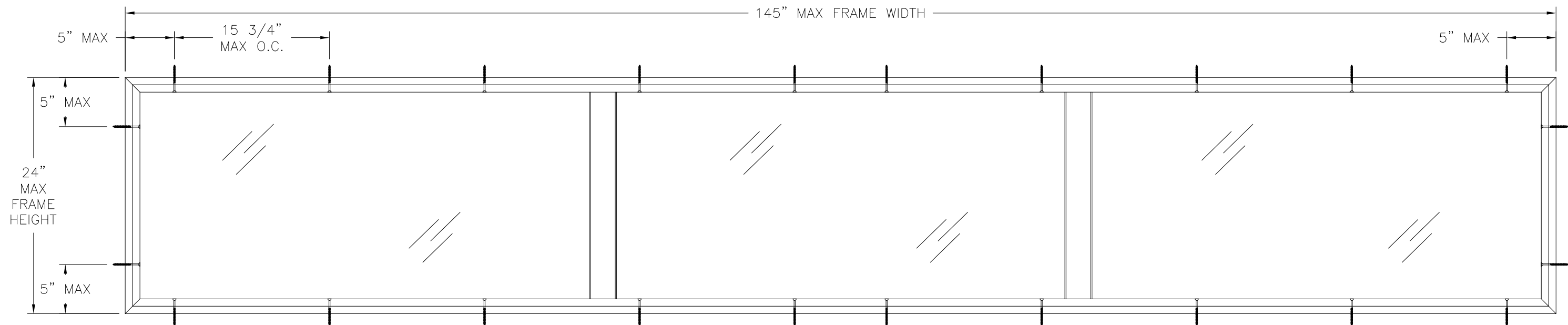
TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1 - 2	ELEVATIONS AND NOTES
3	INSTALLATION DETAILS

NAN YA PLASTICS CORP. USA 8989 NORTH LOOP EAST HOUSTON, TX 77029		
GTO 12020 OUTSWING TRANSOM NON-IMPACT NOTES		
DRAWN: V.L.	DWG NO. 08-02133	REV -
SCALE NTS	DATE 07/11/13	SHEET 1 OF 3



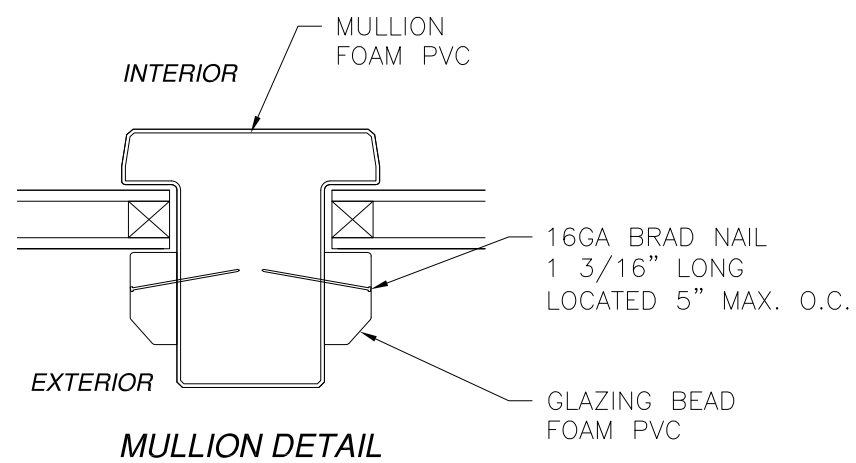
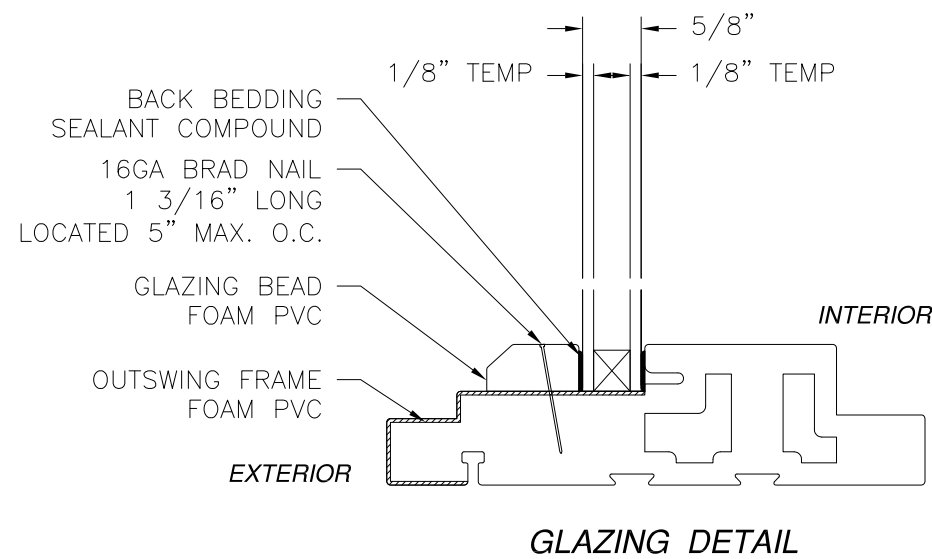
Luis R. Lomas P.E.  
TX No.: 101889

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



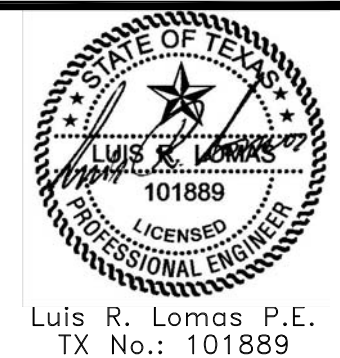
**GTO 1200 OUTSWING TRANSOM**  
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
<b>±75.0PSF</b>	<b>NONE</b>



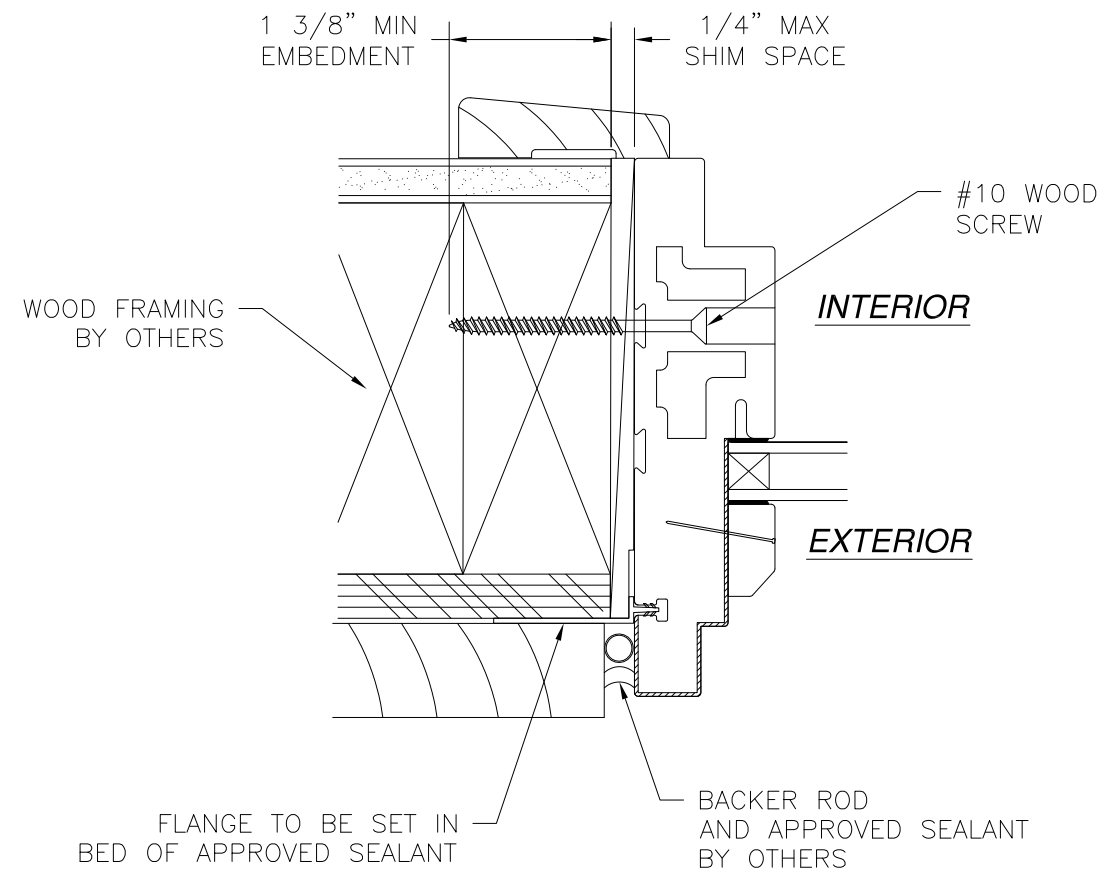
SIGNED: 07/11/2013

<b>NAN YA PLASTICS CORP. USA</b> 8989 NORTH LOOP EAST HOUSTON, TX 77029		
<b>GTO 1200 OUTSWING TRANSOM</b> NON-IMPACT ELEVATION AND DETAILS		
DRAWN: V.L.	DWG NO. 08-02133	REV -
SCALE NTS	DATE 07/11/13	SHEET 2 OF 3

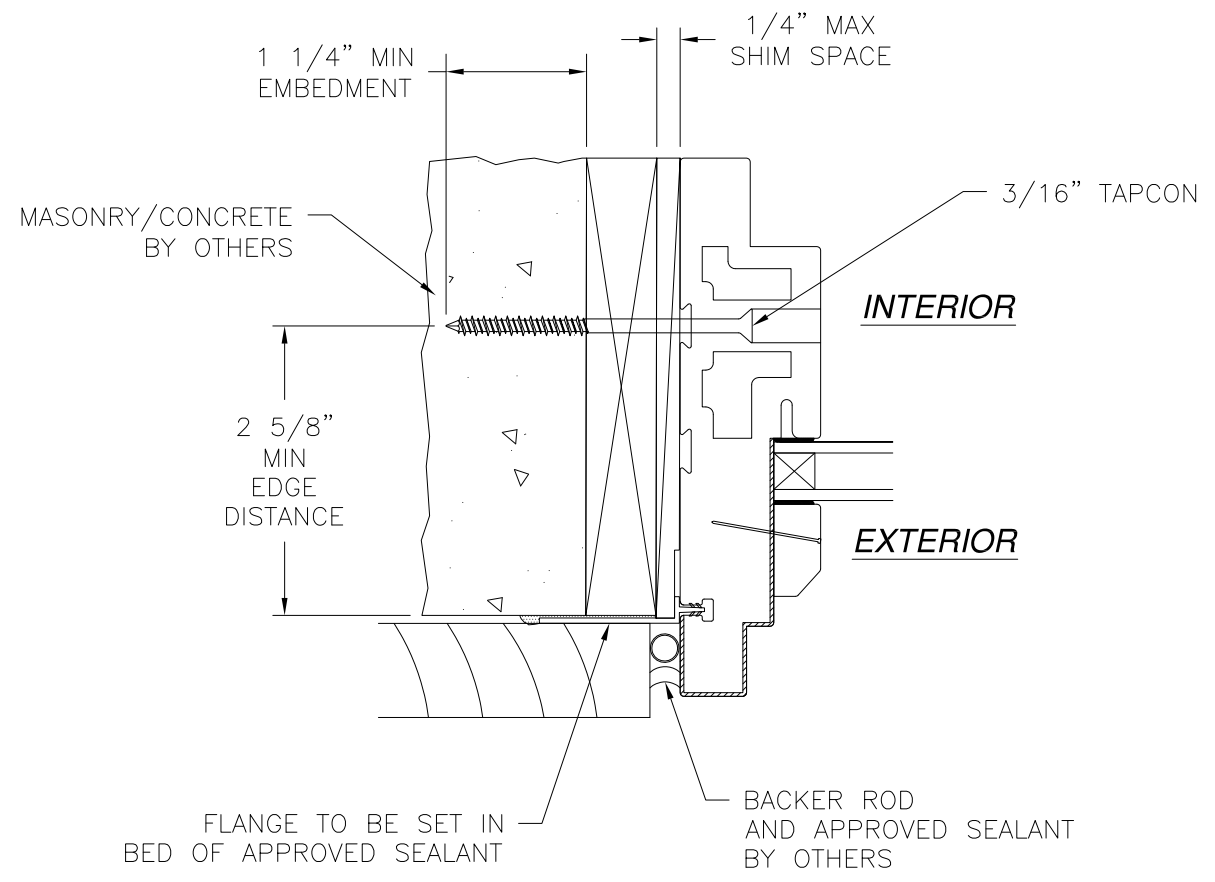


Luis R. Lomas P.E.  
TX No.: 101889

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



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



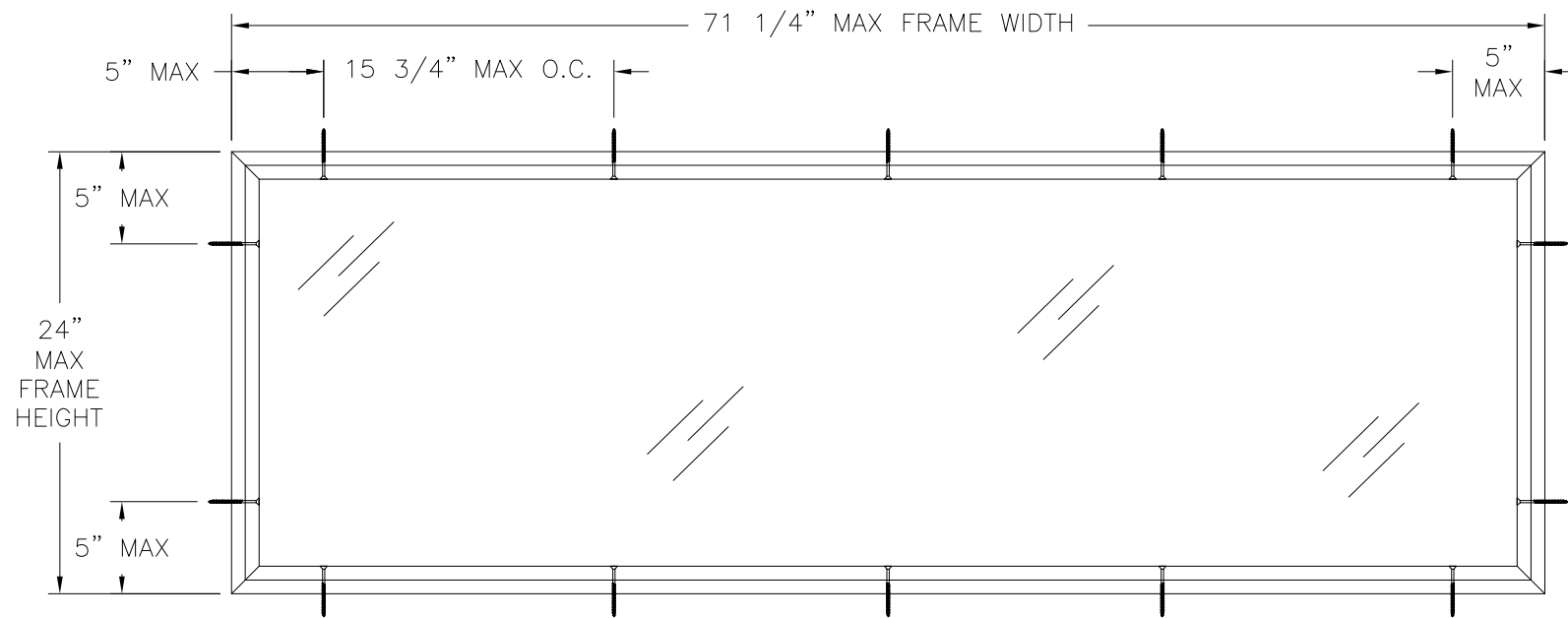
**HORIZONTAL CROSS SECTION**  
**MASONRY/CONCRETE INSTALLATION**  
**JAMB SHOWN HEAD AND SILL SIMILAR**

SIGNED: 07/11/2013

NAN YA PLASTICS CORP. USA 8989 NORTH LOOP EAST HOUSTON, TX 77029		
GTO 12020 OUTSWING TRANSOM NON-IMPACT INSTALLATION DETAILS		
DRAWN: V.L.	DWG NO. 08-02133	REV -
SCALE NTS	DATE 07/11/13	SHEET 3 OF 3

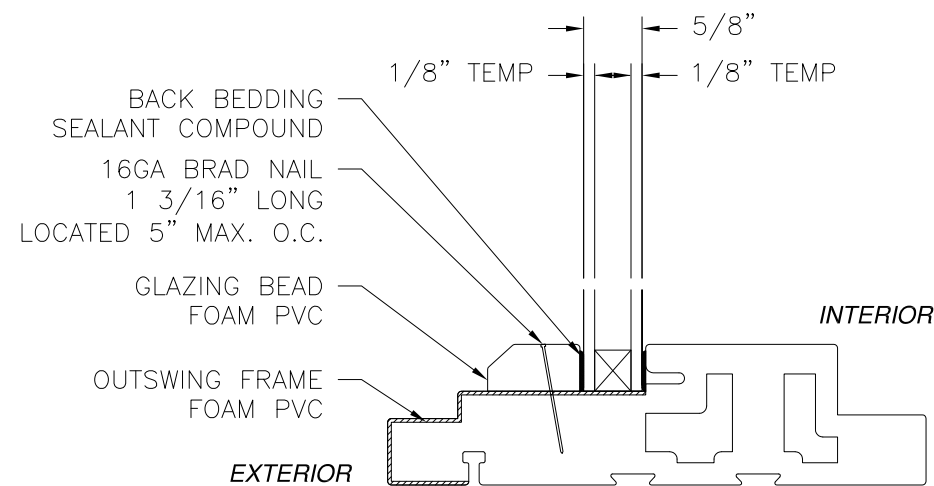
Luis R. Lomas P.E.  
 TX No.: 101889

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



**GTO 6020 GLAZED TRANSOM**  
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±80.0PSF	NONE



**GLAZING DETAIL**

**NOTES:**

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE 2006 IBC AND 2006 IRC WITH STATE OF TEXAS MODIFICATIONS.
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  $C_d=1.6$  WAS USED FOR WOOD ANCHOR CALCULATIONS.
5. FRAME MATERIAL: EXTRUDED RIGID FOAM PVC.
6. UNITS MUST BE GLAZED PER ASTM E1300-04, SEE SHEET 1 FOR GLASS OPTIONS.
7. APPROVED IMPACT PROTECTIVE SYSTEM IS 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: 07/16/2013

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

GTO 6020 OUTSWING TRANSOM  
NON-IMPACT  
ELEVATION AND NOTES

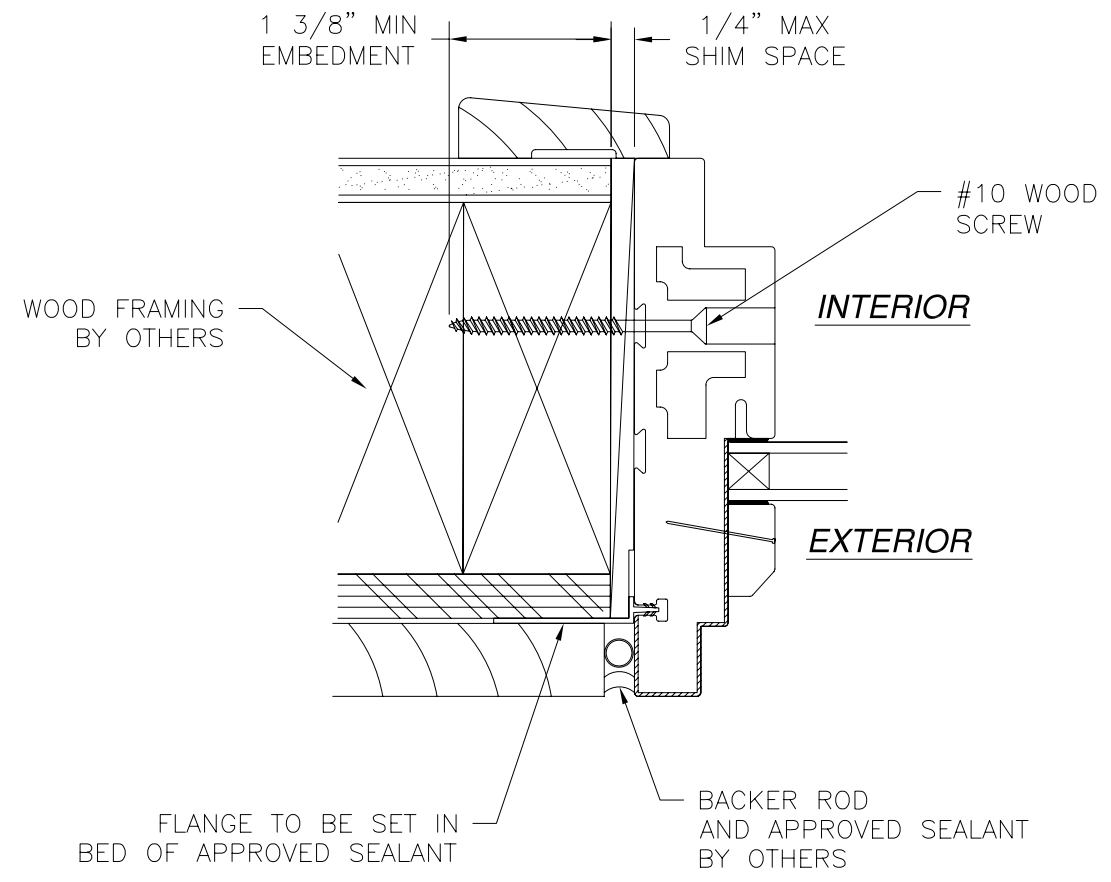
DRAWN: N.G.	DWG NO. 08-02134	REV -
SCALE NTS	DATE 07/16/13	SHEET 1 OF 2



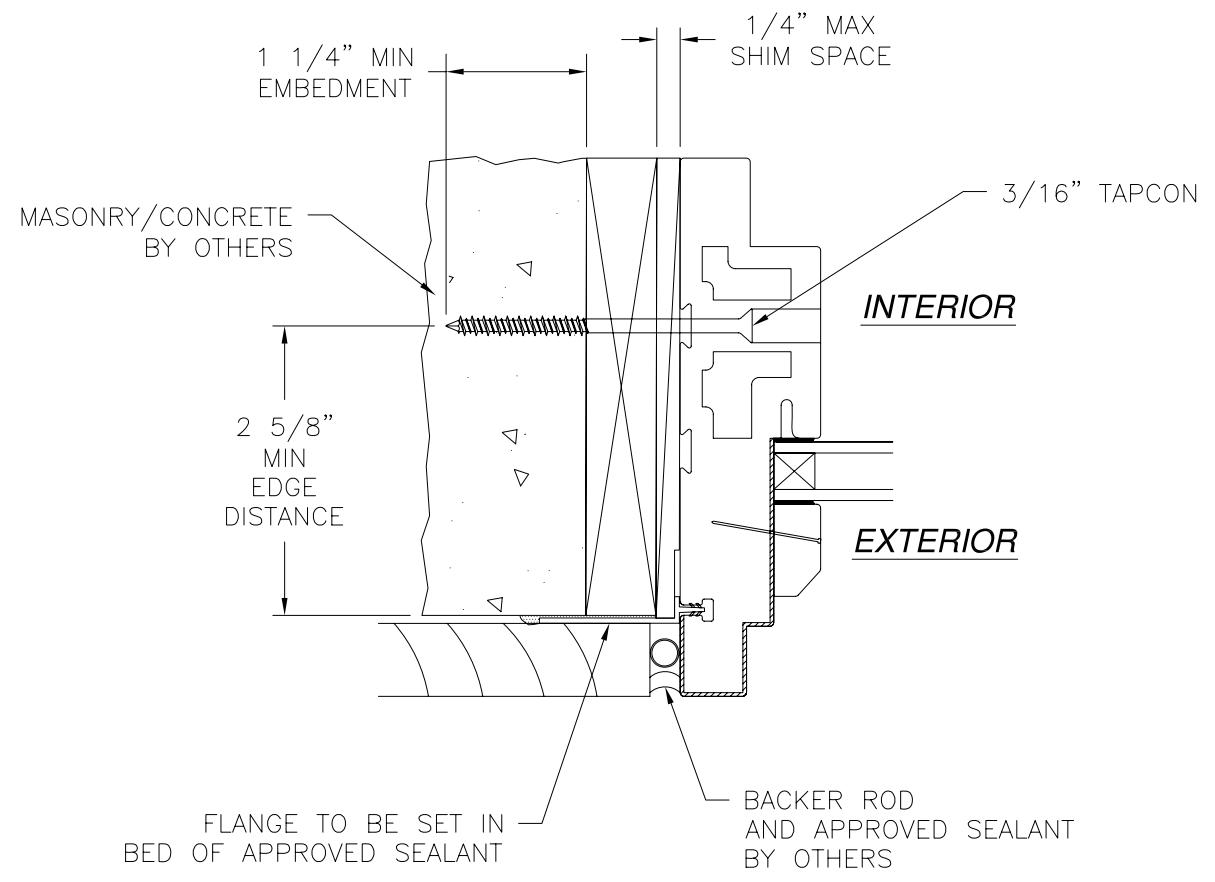
Luis R. Lomas P.E.  
Texas No. 101889

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

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**

SIGNED: 07/16/2013

<p>NAN YA PLASTICS CORP. USA          8989 NORTH LOOP EAST          HOUSTON, TX 77029</p>		
<p>GTO 6020 OUTSWING TRAMSOM          NON-IMPACT          INSTALLATION DETAILS</p>		
<p>DRAWN: N.G.</p>	<p>DWG NO. 08-02134</p>	<p>REV -</p>
<p>SCALE NTS</p>	<p>DATE 07/16/13</p>	<p>SHEET 2 OF 2</p>

Luis R. Lomas P.E.  
 Texas No. 101889