

**AAMA/WDMA/CSA 101/LS.2/A440-05
TEST REPORT**

Rendered to:

NAN YA PLASTICS CORPORATION

**PRODUCT TYPE: Glazed Transom Fixed Window
SERIES/MODEL: GTO 6020**

Title	Summary of Results
Primary Product Designator	TR-LC80 1810 x 610 (71-1/4 x 24)
Design Pressure*	3840 Pa (80.20 psf)
Negative Design Pressure*	3840 Pa (80.20 psf)
Air Infiltration	<0.05 L/s/m ² (<0.01 cfm/ft ²)
Water Penetration Resistance Test Pressure*	580 Pa (12.11 psf)
Uniform Load Structural Test Pressure	± 5760 Pa (120.30 psf)

*-Optional Secondary Designators

Test Completion Date: 02/09/06

Reference must be made to Report No. 62717.01-801-44, dated 03/21/06 for complete test specimen description and data.

AAMA/WDMA/CSA 101/LS.2/A440-05 TEST REPORT

Rendered to:

**NAN YA PLASTICS CORP.
8909 North Loop East
Suite 800
Houston, TX 77029**

Report No.: 62717.01-801-44
Test Date: 02/09/06
Report Date: 03/21/06
Expiration Date: 02/09/10

Project Summary: Architectural Testing, Inc. (ATI) was contracted by Nan Ya Plastics Corp. to perform testing on a fixed glazed transom window. The sample tested successfully met the performance requirements for a TR-LC80 1810 x 610 (71-1/4 x 24) rating. Test specimen description and results are reported herein.

Test Specification: The test specimen was evaluated in accordance with AAMA/WDMA/CSA 101/LS.2/A440-05, *Standard/Specification for Windows, Doors, and Unit Skylights*.

Test Specimen Description:

Series/Model: GTO 6020

Product Type: Fixed glazed transom window

Overall Size: 1810 mm (71-1/4") wide by 610 mm (24") high

Glass Opening Size: 1736 mm (68-5/16") wide by 536 mm (21-1/8") high

Overall Area: 1.10 m² (11.88 ft²)

Finish: PVC parts were white.

Frame Construction: The frame head, jambs, and sill were formed from co-extruded PVC/foam. The corners were mitered and secured using sealant, four #10 x 2-1/2" screws, and an aluminum corner key attached with one #9 x 1-1/2" screw. The foam PVC glazing bead was secured to the frame using sealant and one 16 gauge x 1-3/16" brad nail 5" from each corner and on 5" centers.

Test Specimen Description:

Frame Component Parts List:

<u>Description</u>	<u>Quantity</u>	<u>Part#</u>	<u>Manufacturer</u>
Top, Bottom, and Side jambs	4	2	Nan-Ya Plastics Corp.
Glazing bead	4	4	Nan-Ya Plastics Corp.
Corner key	4	15	Micota Locks Co.

Glazing Type: The unit utilized a nominal 16 mm (5/8") thick sealed insulating glass unit fabricated from two pieces of nominal 3 mm (1/8") tempered glass and an aluminum spacer system.

Glazing Details: The unit was exterior glazed using backbedding compound and a foam PVC glazing bead.

Drainage: None

Reinforcement: None.

Installation: The unit was sealed into a 2" x 10" pine test buck and secured through the frame using #10 x 3" screws 5" from each corner and on 15-3/4" centers thereafter. PVC snap-in caps were installed over the screw heads.

Test Results: The results are tabulated as follows:

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
5.3.2.1	Air Leakage Resistance per ASTM E 283 80 Pa (1.67 psf)	<0.05 L/s/m ² (<0.01 cfm/ft ²)	1.5 L/s/m ² (0.3 cfm/ft ² max.)

Note #1: *The tested specimen meets (or exceeds) the performance levels specified in AAMA/WDMA/CSA 101/I.S.2/A440-05 for air leakage resistance.*

5.3.3.2 Water Penetration Resistance per ASTM E 547 (See Note #2)

5.3.4.2 Uniform Load Deflection per ASTM E 330 (See Note #2)

5.3.4.3 Uniform Load Structural per ASTM E 330 (See Note #2)

Test Results: (Continued)

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
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Note #2: The client opted to start at a pressure higher than the minimum required. Those results are listed under "Optional Performance".

2.1.8	Forced Entry Resistance per ASTM F588		
5.3.5	Type: D Grade: 10 Tool Manipulation Test	No entry	No entry

Optional Performance

4.4.2.6	Water Penetration Resistance per ASTM E 547 580 Pa (12.11 psf)	No leakage	No leakage
4.4.2.6	Uniform Load Deflection per ASTM E 330 (Deflections were taken on the jamb) (Loads were held for 10 seconds)		
	3840 Pa (80.20 psf) (positive)	<0.3 mm (<0.01")	See Note #3
	3840 Pa (80.20 psf) (negative)	<0.3 mm (<0.01")	See Note #3

Note #3: The deflections reported are not limited by AAMA/WDMA/CSA 101/I.S.2/A440-05 for this product designation. The deflection data is recorded in this report for special code compliance and information only.

4.4.2.6	Uniform Load Structural per ASTM E 330 (Permanent sets were taken on the jamb) (Loads were held for 10 seconds)		
	5760 Pa (120.30 psf) (positive)	<0.3 mm (<0.01")	1.0 mm (0.06") max.
	5760 Pa (120.30 psf) (negative)	<0.3 mm (<0.01")	1.0 mm (0.06") max.

Drawing Reference: The test specimen drawings have been reviewed by ATI and match the test specimen reported herein.

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years from the original test date. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator. This report may not be reproduced, except in full, without the approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC.

Andy Cost
Laboratory Manager

John Waskow
Director of Regional Operations

JHW: ajl
62717.01-801-44-r0
Attachments (pages):
 Appendix-A: (1)
 Appendix-B: Drawings (6)

Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
0	03/31/06	N/A	Original report issue



Appendix A:

Alteration Addendum

Note: No alterations were required.

Appendix B:
Drawings

BILL OF MATERIALS FOR GLAZE TRANSOM OF 2' HEIGHT-INSWING G116020					
ITEM	NO.	QTY	PART DESCRIPTION	MATERIALS	MANUFACTURER
FRAME	1	4	TOP & BOTTOM & SIDE JAMB	FOAMPVC CO-EX	NAN-YA PLASTIC CORP.
	4	4	GLAZE BEAD	FOAMPVC	NAN-YA PLASTIC CORP.
	8	4	NAILING FIN	PVC CO-EX	NAN-YA PLASTIC CORP.
	15	4	CORNER KEY	DECAST	MICOTA LOCKS CO.
	17	16	#10 X 2 1/2" PHILLIPS FLAT HEAD	STAINLESS STEEL	ZHONG-QUN SCREWS CO.
	18	4	#9 X 1 1/2" PHILLIPS FLAT HEAD	STAINLESS STEEL	ZHONG-QUN SCREWS CO.
	19	34	1-3/16" NAIL	STEEL	STANLEY CO.

BILL OF MATERIALS FOR GLAZE TRANSOM OF 2' HEIGHT-OUTSWING G10620					
ITEM	NO.	QTY	PART DESCRIPTION	MATERIALS	MANUFACTURER
FRAME	2	4	TOP & BOTTOM & SIDE JAMB	FOAMPVC CO-EX	NAN-YA PLASTIC CORP.
	4	4	GLAZE BEAD	FOAMPVC	NAN-YA PLASTIC CORP.
	9	4	NAILING FIN	PVC CO-EX	NAN-YA PLASTIC CORP.
	15	4	CORNER KEY	DECAST	MICOTA LOCKS CO.
	17	16	#10 X 2 1/2" PHILLIPS FLAT HEAD	STAINLESS STEEL	ZHONG-QUN SCREWS CO.
	18	4	#9 X 1 1/2" PHILLIPS FLAT HEAD	STAINLESS STEEL	ZHONG-QUN SCREWS CO.
	19	34	1-3/16" NAIL	STEEL	STANLEY CO.

BILL OF MATERIALS FOR GLAZE TRANSOM OF 2' HEIGHT-INSWING G116020					
ITEM	NO.	QTY	PART DESCRIPTION	MATERIALS	MANUFACTURER
FRAME	1	4	TOP & BOTTOM & SIDE JAMB	FOAMPVC CO-EX	NAN-YA PLASTIC CORP.
	4	12	GLAZE BEAD	FOAMPVC	NAN-YA PLASTIC CORP.
	16	2	ASTRAGAL	FOAMPVC	NAN-YA PLASTIC CORP.
	8	4	NAILING FIN	PVC CO-EX	NAN-YA PLASTIC CORP.
	15	4	CORNER KEY	DECAST	MICOTA LOCKS CO.
	17	28	#10 X 2 1/2" PHILLIPS FLAT HEAD	STAINLESS STEEL	ZHONG-QUN SCREWS CO.
	18	4	#9 X 1 1/2" PHILLIPS FLAT HEAD	STAINLESS STEEL	ZHONG-QUN SCREWS CO.
	19	78	1-3/16" NAIL	STEEL	STANLEY CO.

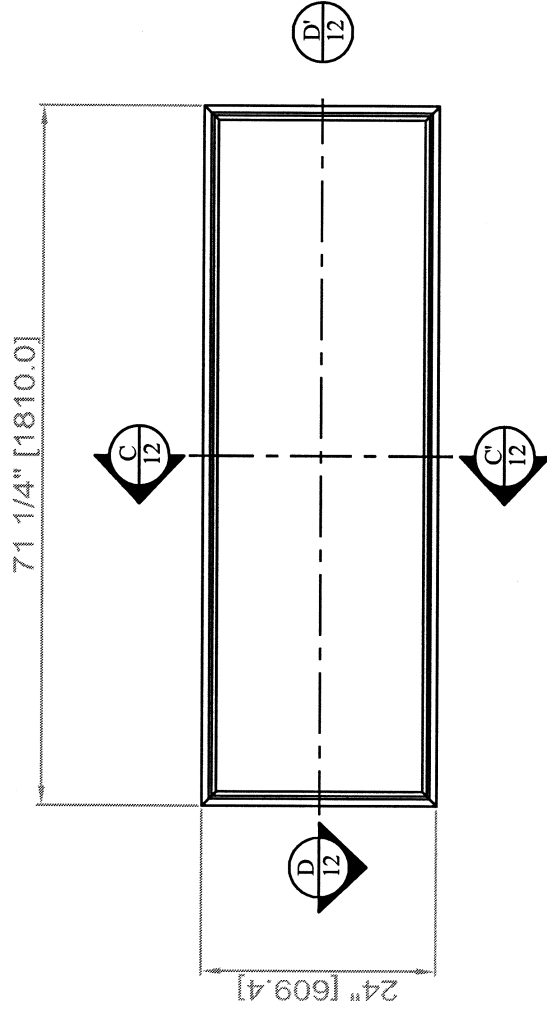
BILL OF MATERIALS FOR GLAZE TRANSOM OF 2' HEIGHT-OUTSWING G1020					
ITEM	NO.	QTY	PART DESCRIPTION	MATERIALS	MANUFACTURER
FRAME	2	4	TOP & BOTTOM & SIDE JAMB	FOAMPVC CO-EX	NAN-YA PLASTIC CORP.
	4	12	GLAZE BEAD	FOAMPVC	NAN-YA PLASTIC CORP.
	16	2	ASTRAGAL	FOAMPVC	NAN-YA PLASTIC CORP.
	9	4	NAILING FIN	PVC CO-EX	NAN-YA PLASTIC CORP.
	15	4	CORNER KEY	DECAST	MICOTA LOCKS CO.
	17	28	#10 X 2 1/2" PHILLIPS FLAT HEAD	STAINLESS STEEL	ZHONG-QUN SCREWS CO.
	18	4	#9 X 1 1/2" PHILLIPS FLAT HEAD	STAINLESS STEEL	ZHONG-QUN SCREWS CO.
	19	78	1-3/16" NAIL	STEEL	STANLEY CO.

Architectural Testing
 Test sample complies with these details.
 Deviations are noted.

Report# 62717.01
 Date 3/16/06 Tech JW
 DATE MAR/05/06
 DRAWN BY Morris Huang
 DWG NO. REVISIONS

SHEET TITLE:
 Bill of Materials for Glaze Transom

SHEET
 26 OF 32



① Glaze Transom (71 1/4" X 24") For Outswing Door
AAMA 101-05

* Exterior view shown



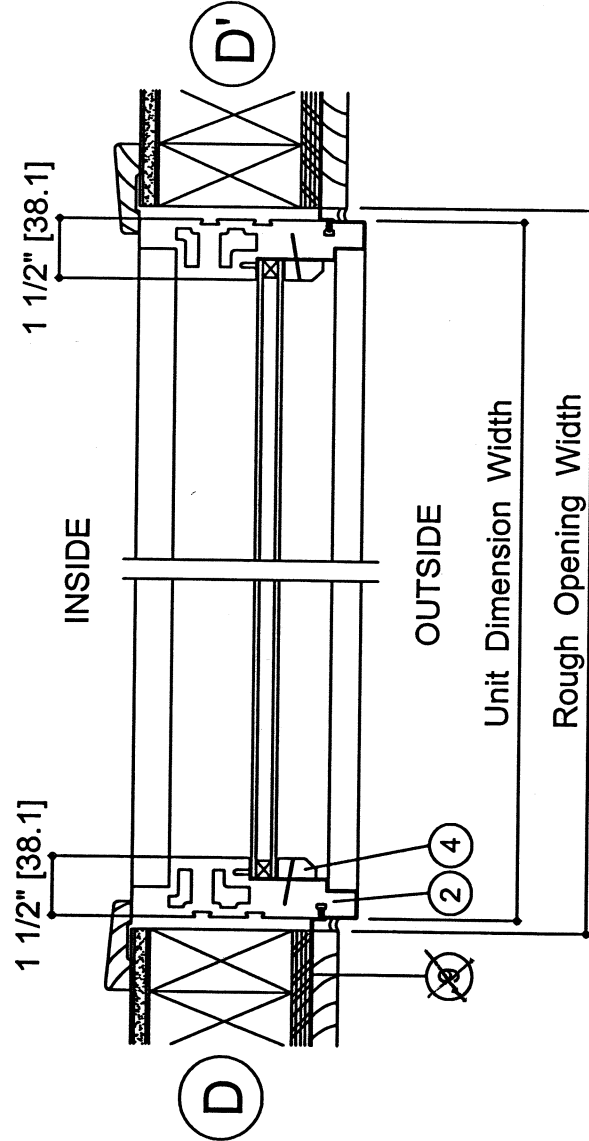
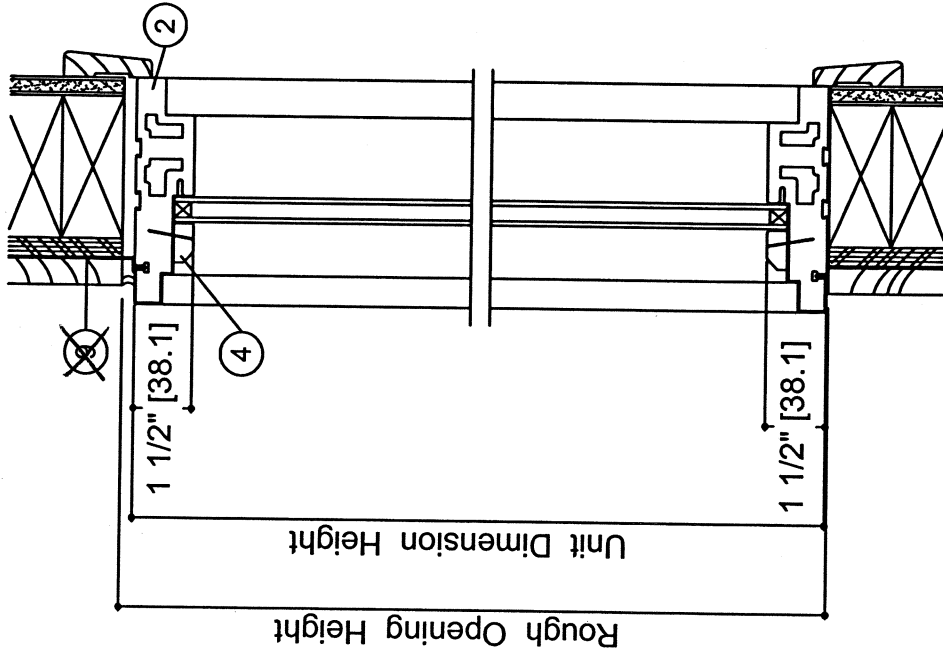
Test sample complies with these details.
Deviations are noted.

Report# 62717.01 Tech GW
Date 3/9/06

DATE	Feb/23/06	SHEET	SHEET TITLE:	
DRAWN BY	Morris Huang	2 OF 32	Glaze Transom (71 1/4" X 24")	
DWG NO.	-		Series : GTC 6020	
REVISIONS				

NAN YA PLASTICS CORPORATION
6F.L.201, Tung Hwa N. Road Taipei, Taiwan
Tel:(886)2-2712-2211 ; Fax:(886)2-2717-8512

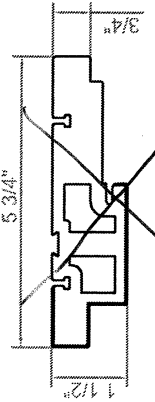
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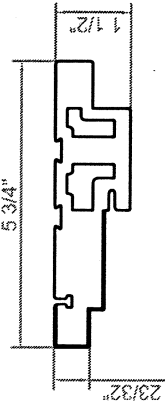
Test sample complies with these details.
 Deviations are noted.

Report# 02717.01
 Date 3/9/06 Tech AA

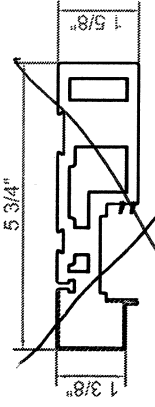
	DATE	FEB/23/06	SHEET TITLE:	
	DRAWN BY	Morris Huang	Glaze Transom for Outswing door	
	DWG NO.		C-C' & D-D' Section	
△	REVISIONS			
			SHEET	12 OF 32
			NAN YA PLASTICS CORPORATION 6F, L201, Tung Hwa N. Road Taipei, Taiwan Tel: (886)2-2712-2211 ; Fax: (886)2-2717-8512	



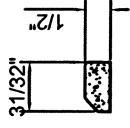
① 5 3/4" INSWING FRAME
FOAM PVC CO-EX.



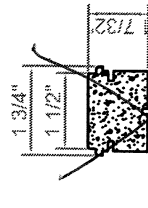
② 5 3/4" OUTSWING FRAME
FOAM PVC CO-EX.



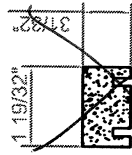
③ 5 3/4" GLIDING FRAME
FOAM PVC CO-EX.



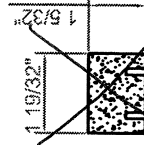
④ GLAZING BEAD
FOAM PVC



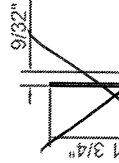
⑤ 7/32" STILE
FOAM PVC



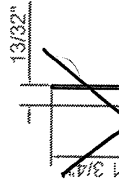
⑥ 1 1/32" STILE
FOAM PVC



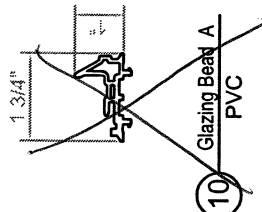
⑦ 1 5/32" DOOR BOTTOM
FOAM PVC



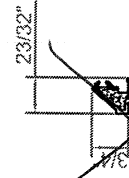
⑧ Nailing-Fin (PS041)
PVC



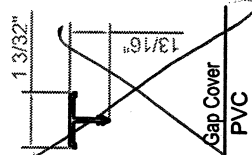
⑨ Nailing-Fin (PS042)
PVC



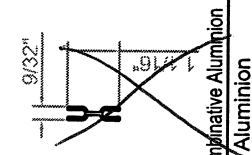
⑩ Glazing Bead A
PVC



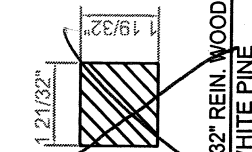
⑪ Glazing Bead B
FOAM PVC CO-EX.



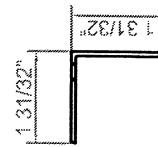
⑫ Gap Cover
PVC



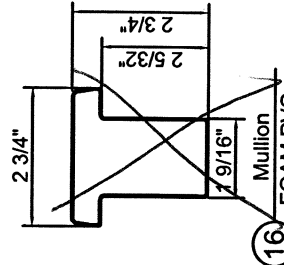
⑬ Combination Aluminum
Aluminum



⑭ 1 21/32" REIN. WOOD
WHITE PINE



⑮ CORNER KEY
DIE CAST



⑯ Mullion
FOAM PVC



Test sample complies with these details.
Deviations are noted.

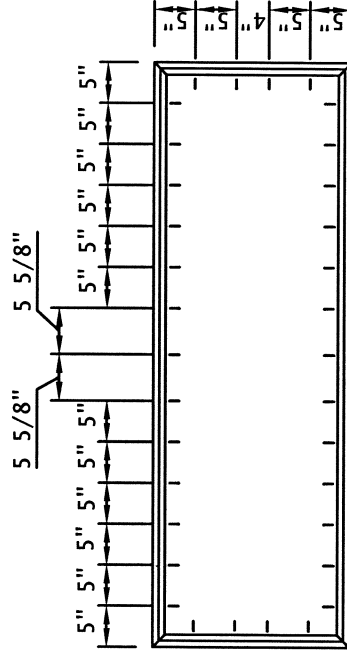
Report# 62717.01

Date 3/9/06 Tech AW

DATE	FEB/27/06	SHEET	25 of 32	SHEET TITLE: Glazed Transom & French Transom Door Hardware & Accessories
DRAWN BY	Morris Huang			
DWG NO.				
REVISIONS				

NAN YA PLASTICS CORPORATION
6FL, 201, Tung Hua N. Road Taipei, Taiwan
Tel: (886)2-2712-2511 ; Fax: (886)2-2717-8512

ANCHORING OF GLAZE BEAD IN GLAZE TRANSOM



NAIL SCHEDULE	QTY
1-3/16" NAIL	34



Test sample complies with these details.
Deviations are noted.

Report# 62717.01

Date 3/9/06 Tech. JW

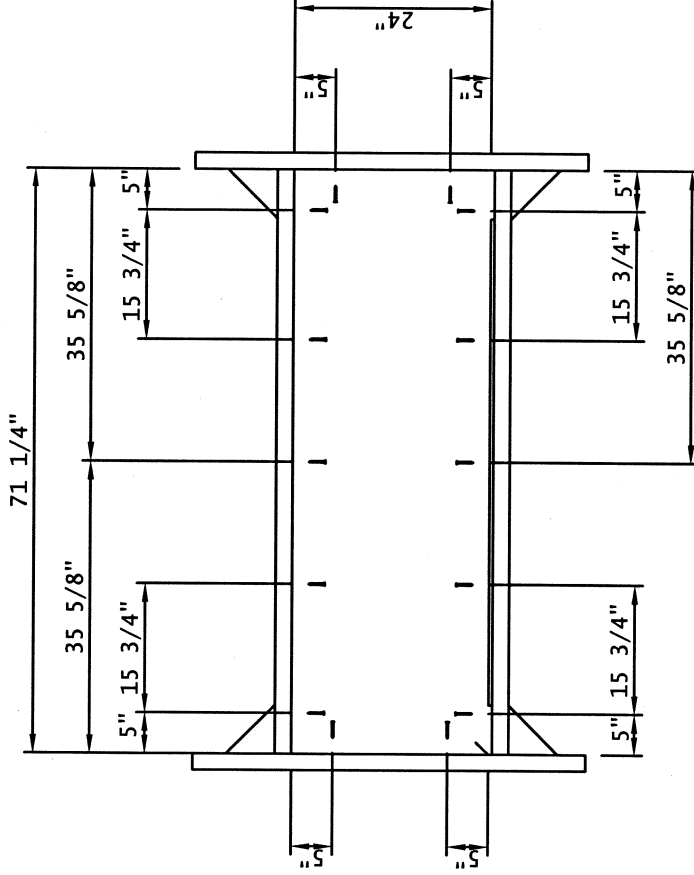

 NAN YA PLASTICS CORPORATION
 6FL201, Tung Hwa N. Road Taipei, Taiwan
 Tel: (886)2-2712-2211 ; Fax: (886)2-2717-8512

SHEET TITLE:
 GLAZE TRANSOM
 GLAZE BEAD NAIL SCHEDULE
 TYPE: GTI 6020 \ GTO 6020

DATE	FEB/25/06	SHEET	29 OF 32
DRAWN BY	Morris Huang		
DWG NO.			

REVISIONS	
Δ	

ANCHORING FOR GLAZE TRANSOM TO THE WOOD BUCK



SCREW SCHEDULE	QTY
ITEM	
#10 X 3" PHILLIPS SQUARE DRIVE SCREWS	14



Test sample complies with these details.
Deviations are noted.

Report# 62717.01
Date 3/9/06 Tech flw

NAN YA PLASTICS CORPORATION
8FL-201, Tung Hwa N. Road Taipei, Taiwan
Tel: (886)2-2712-2211; Fax: (886)2-2717-5512

SHEET TITLE:
GLAZE TRANSOM FOR INSWING DOOR
TO WOOD BUCK SCREW SCHEDULE
Series: GTI 6020 \ GTO 6020

SHEET
21 OF 32

DATE FEB/25/06
DRAWN BY Morris Huang

REVISIONS

