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 Effective Date: June 1, 2014
DR-686 Reevaluation Date: **July 2015**

*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.

Vinyl Gliding Patio Doors, 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	Two Panel Sliding Patio Door R-PG50	R-PG50 72 x 80-SD	+50 / -50 psf
2	Two Panel Sliding Patio Door R-PG45	R-PG45 71 x 80-SD	+45 / -45 psf

Product Dimensions:

System	Overall Size	Active Pane Size	Fixed Panel Size
1	71.38” x 79.50”	35.75” x 76.63”	35.75” x 76.63”
2	71.38” x 79.50”	35.75” x 76.63”	35.75” x 76.63”

Product Identification (Certification Agency Label on Door):

System		
1	Certification Agency	NAMI
	Manufacturer’s Name or Code Name	Nan Ya Plastics USA
	Product Name	Gliding 2 Panel Patio PVC Sliding Patio Door
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08
2	Certification Agency	NAMI
	Manufacturer’s Name or Code Name	Nan Ya Plastics USA
	Product Name	MasterPiece Gliding Patio Door
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-08

Impact Resistance:

Impact Resistant	Requirement
No	Impact protective system required when product is installed in areas where windborne debris protection is required

Qualified Configurations: OX / XO.

Installation:

Design Drawings:

System 1: Drawing No. 08-01100, titled "Nan Ya 6068 DP50 Sliding Glass Door-Non-Impact," sheets 1 through 3 of 3, dated August 24, 2010, Rev. A dated July 22, 2013, signed and sealed by Luis R. Lomas., P.E on July 24, 2013. The stated drawings will be referred to as the approved drawings in this evaluation report.

System 2: Drawing No. 08-02196, titled "Nan Ya 6068 DP45 Gliding Patio Door-Non-Impact," sheets 1 through 3 of 3, dated August 1, 2013, signed and sealed by Luis R. Lomas., P.E on August 1, 2013. The stated drawings will be referred to as the approved drawings in this evaluation report.

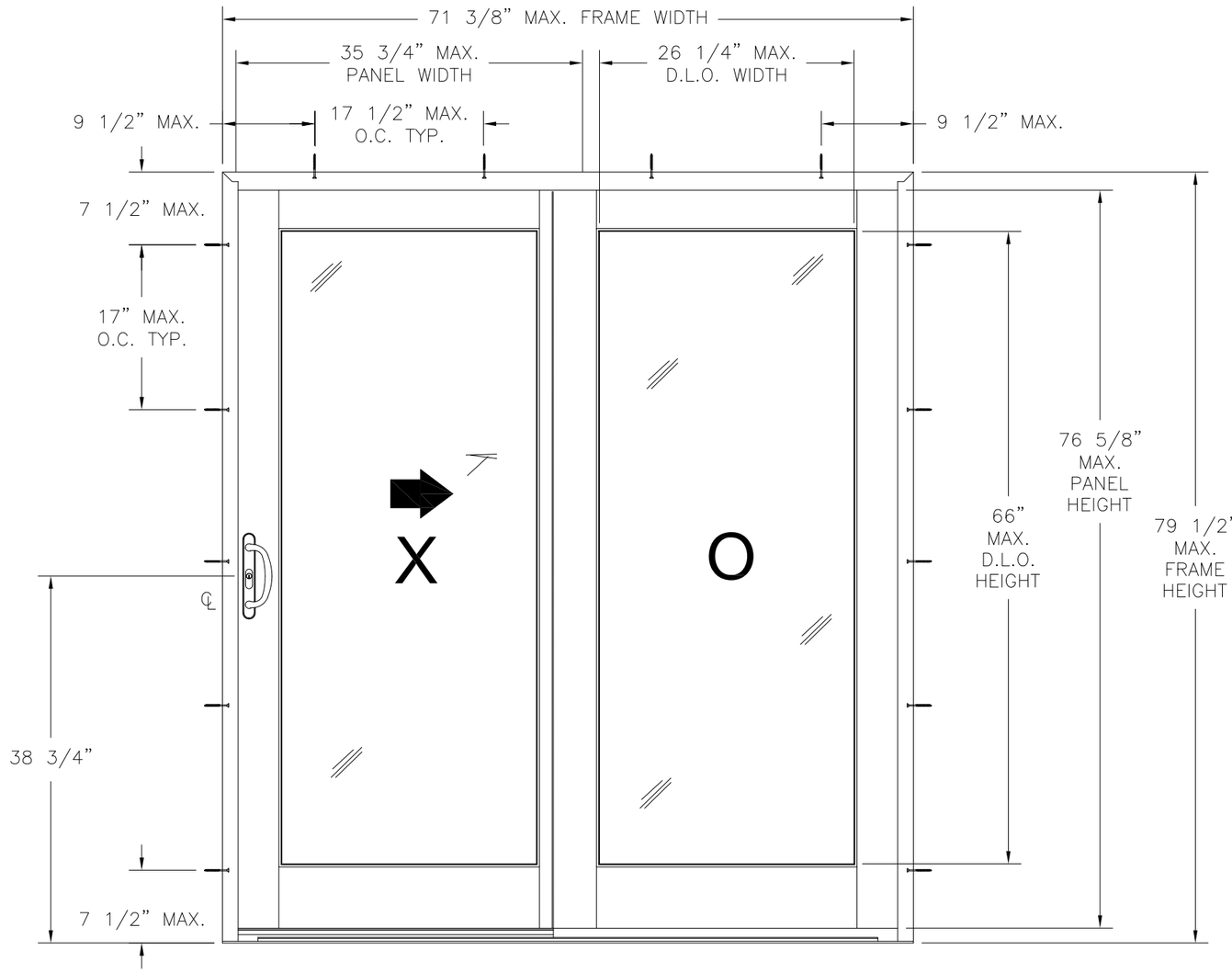
Wall Framing Construction: The doors may be mounted to the following types of wall framing construction:

- Wood dimension lumber (minimum Spruce-Pine-Fir)

Installation:

- Refer to Sheet 1 of 3 of the approved drawings for the elevation, anchor layout, and notes.
- Refer to Sheet 2 of 3 of the approved drawings for installation details.
- The approved drawings indicate the minimum embedment depths 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.



NAN YA 6068 DP45 SLIDING GLASS DOOR
EXTERIOR VIEW

DESIGN PRESSURE RATING	*IMPACT RATING*
±45PSF	*NONE*

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

NOTES:
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE 2006 INTERNATIONAL BUILDING CODE AND 2006 INTERNATIONAL RESIDENTIAL CODE WITH TEXAS STATE 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 JAMB AND HEAD MATERIAL: PVC COMPOSITE FOAM WITH AN EXTRUDED PVC SKIN .031" THICK.
6. UNITS MUST BE GLAZED PER ASTM E1300–04.
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 HEAD AND JAMBS INTO 2X BUCK OR WOOD FRAMING USE #10 WOOD SCREW OF SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ANCHORING LAYOUT AND INSTALLATION DETAILS.
10. ALL FASTENERS TO BE CORROSION RESISTANT.
11. 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
12. FRAME SILL MATERIAL: CO–EXTRUDED PVC FOAM 1 1/32" THICK.
13. DOOR PANEL MATERIAL: PVC COMPOSITE FOAM WITH AN EXTRUDED PVC SKIN .031" THICK.
14. APPROVED CONFIGURATIONS: XO, OX.

SIGNED: 08/01/2013

TABLE OF CONTENTS

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

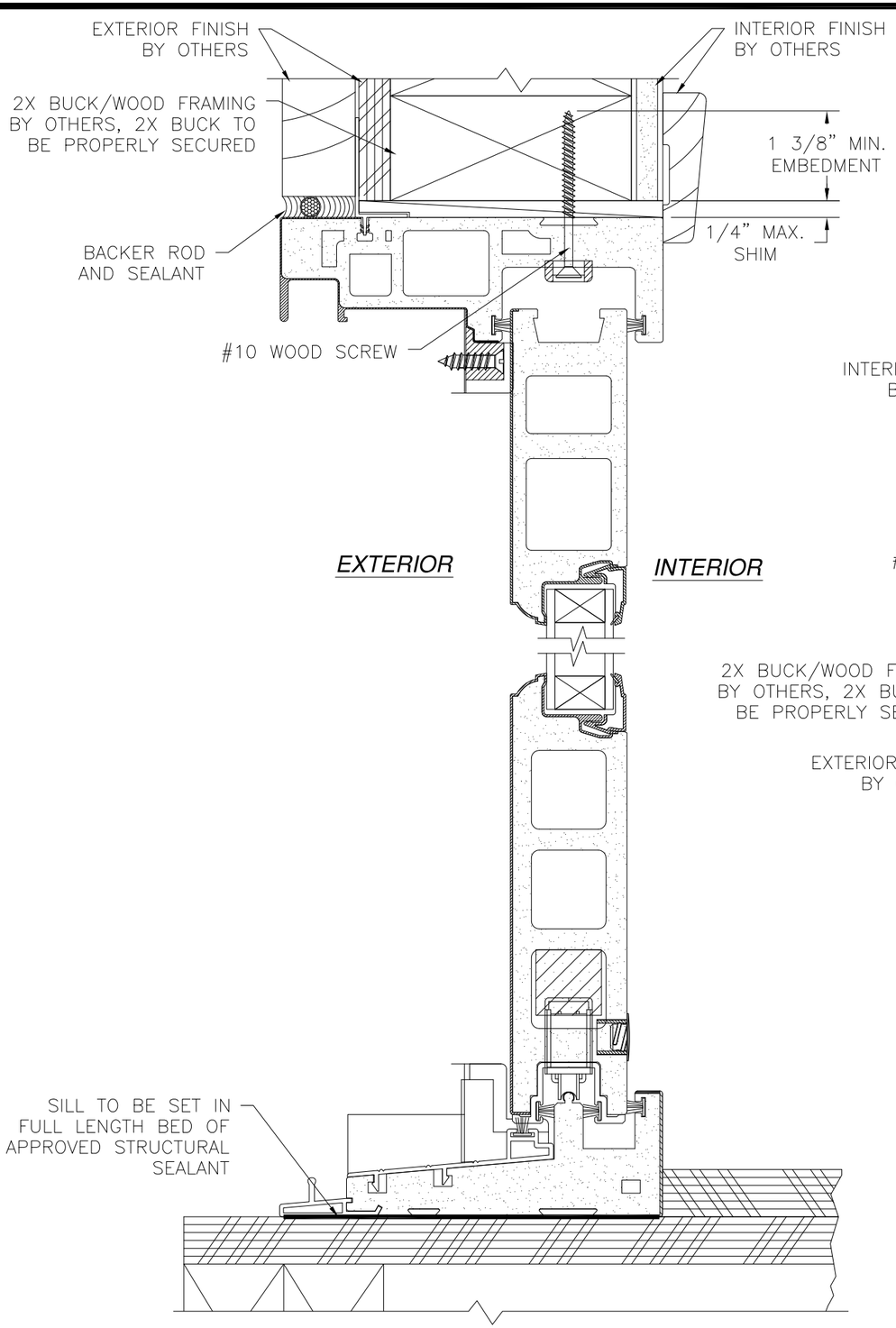
NAN YA 6068 DP45
GLIDING PATIO DOOR
ELEVATION, ANCHORING LAYOUT AND NOTES

DRAWN:	DWG NO.	REV
N.G.	08–02196	–
SCALE NTS	DATE 08/01/13	SHEET 1 OF 3

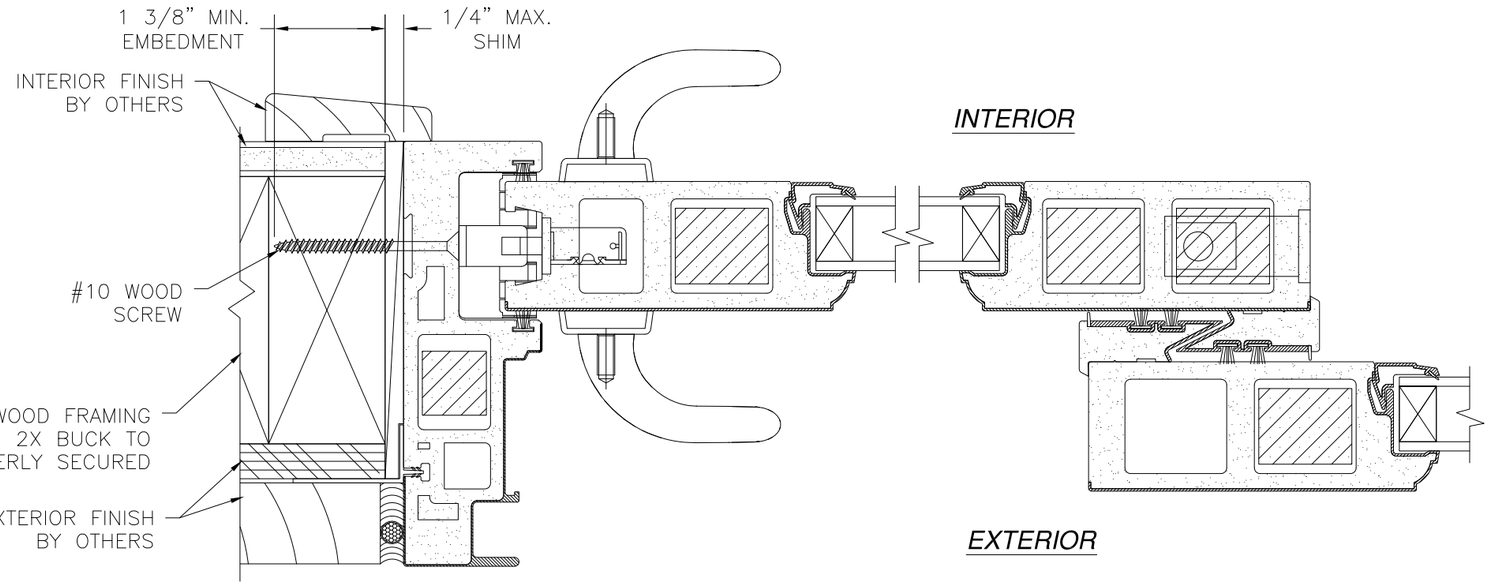
STATE OF TEXAS
LUIS R. LOMAS
101889
LICENSED
PROFESSIONAL ENGINEER

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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



VERTICAL CROSS SECTION
2X BUCK/WOOD FRAMING



HORIZONTAL CROSS SECTION
2X BUCK/WOOD FRAMING

SIGNED: 08/01/2013

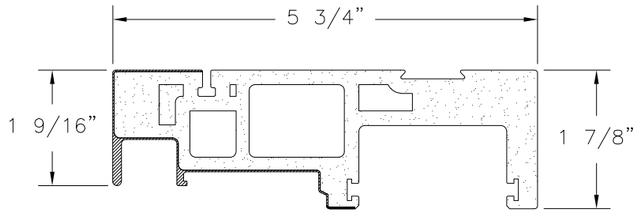
NAN YA PLASTICS CORP. USA
8989 NORTH LOOP EAST
HOUSTON, TX 77029

NAN YA 6068 DP45
GLIDING PATIO DOOR
INSTALLATION DETAILS

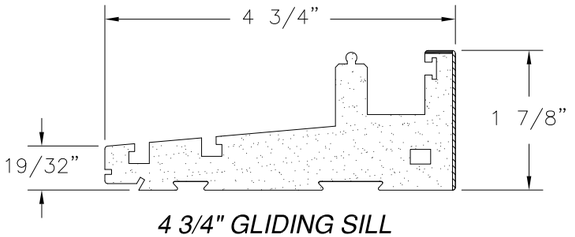
DRAWN:	DWG NO.	REV
N.G.	08-02196	–
SCALE NTS	DATE 08/01/13	SHEET 2 OF 3

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

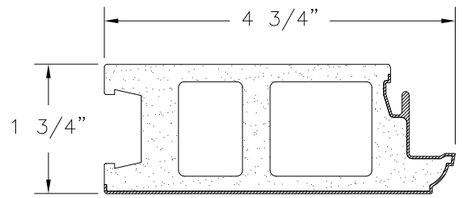
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



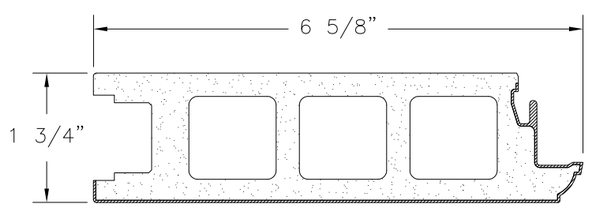
5 3/4" FRAME HEAD AND JAMB
CO-EXTRUDED PVC FOAM .75" THICK



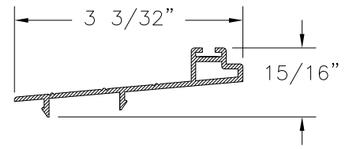
4 3/4" GLIDING SILL
CO-EXTRUDED PVC FOAM
1.032" THICK



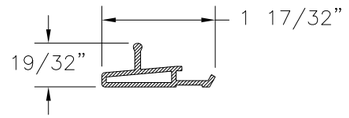
4 3/4" STILE AND TOP RAIL
PVC COMPOSITE FOAM WITH
.031" THICK EXTRUDED PVC SKIN



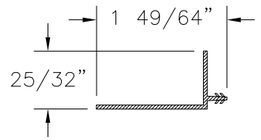
6 5/8" BOTTOM RAIL
PVC COMPOSITE FOAM WITH
.031" THICK EXTRUDED PVC SKIN



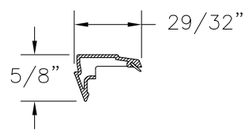
THRESHOLD
EXTRUDED ALUMINUM 6063-T6 .059" THICK



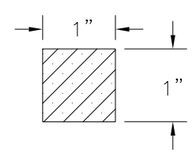
SCREEN RAIL
EXTRUDED ALUMINUM 6063-T6 .059" THICK



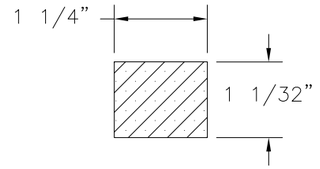
FRAME FIN
EXTRUDED RIGID PVC .051" THICK



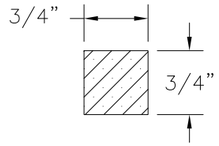
1" GLAZING BEAD
EXTRUDED RIGID PVC .039" THICK



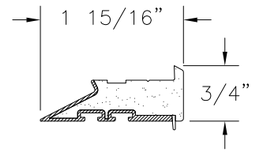
PANEL BOTTOM RAIL REINFORCEMENT
PINE



PANEL STILE REINFORCEMENT
PINE



JAMB REINFORCEMENT
PINE



MEETING STILE INTERLOCK
CO-EXTRUDED PVC FOAM .75" THICK

HARDWARE SCHEDULE
A. ADJUSTABLE ROLLER (2) PER ACTIVE PANEL
B. FLUSH BOLT WITH KEEPER (1) TOP OF ACTIVE PANEL
C. SINGLE LOCKING SYSTEM WITH KEEPER (1) PER ACTIVE PANEL
D. GLIDING HANDLE SET (1) PER ACTIVE PANEL

SIGNED: 08/01/2013

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

NAN YA 6068 DP45
GLIDING PATIO DOOR
COMPONENTS AND HARDWARE

DRAWN:	DWG NO.	REV
N.G.	08-02196	–
SCALE NTS	DATE 08/01/13	SHEET 3 OF 3

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