REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

NOTES:
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE, THE 2006 IBC, 2006 IRC, 2009 IBC, 2009 IRC, 2012 IBC AND 2012 IRC.
2. WOOD FRAMING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. 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.
4. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS UP TO WIND ZONE 3.
5. DESIGN PRESSURE AND INSTALLATION DETAILS SHOWN IN THIS DOCUMENT APPLY ONLY TO MULLION. WINDOWS MUST BE APPROVED UNDER SEPARATE APPROVAL.
6. DOORS TO BE MULLED ARE NOT LIMITED TO THOSE SHOWN IN THIS DRAWING. DOORS MUST BE MANUFACTURED BY NAN YA PLASTICS CORP. USA.
7. DESIGN PRESSURE OF MULLED UNIT SHALL BE CONTROLLED BY THE LESSER DESIGN PRESSURE OF THE MULLION OR THE INDIVIDUAL WINDOW OR DOOR UNIT.
8. THIS DOCUMENT ADDRESSES ONLY THE MULLION AND MULLION RATING. DOORS, SIDELITES AND TRANSOM MUST HAVE THEIR OWN SEPARATE APPROVAL.

DESIGN PRESSURE TABLE INSTRUCTIONS:
1. DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16 OR IBC CHAPTER 16.
2. DETERMINE MULLION SPAN BASED ON PRODUCT TO BE INSTALLED.
3. TO DETERMINE MULLION RATING LOCATE MULLION SPAN COLUMN AND BOTTOM UNIT HEIGHT ROW WITH APPROPRIATE TRANSOM HEIGHT. RATING WOULD BE LOCATED AT INTERSECTION OF COLUMN (MULLION SPAN) AND ROW (BOTTOM UNIT HEIGHT).
4. MULLION RATING MUST BE EQUAL OR GREATER THAN REQUIRED DESIGN PRESSURE OBTAINED IN STEP 1.
5. IF TRANSOM TO BE INSTALLED IS NOT LISTED IN THESE CHARTS GO TO NEXT HIGHER TRANSOM CHART. FOR EXAMPLE IF TRANSOM TO BE INSTALLED IS 20" HIGH THEN USE CHART FOR 24" TRANSOM.

ANCHORING NOTES:
1. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS.
2. FOR ANCHORING INTO CONCRETE USE 1/4" ELCO CRETE–FLEX TAPCON WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT WITH 2 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS.
3. FOR ANCHORING INTO METAL STRUCTURE USE #10 SMS GRADE 5 OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
4. DOORS AND TRANSOMS TO BE INSTALLED ACCORDING TO THEIR OWN APPROVAL DOCUMENTATION.
5. ALL FASTENERS TO BE CORROSION RESISTANT.
6. 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 2,000 PSI.
   C. NORMAL WEIGHT MASONRY HOLLOW FILLED BLOCK PER AS ASTM C90 WITH F'm= 2,000 PSI MINIMUM.
   D. METAL STRUCTURE: STEEL 18GA (.048"), Fy= 33KSI/ Fu= 52KSI OR ALUMINUM 6063–T5 Fu= 30KSI .075" THICK MINIMUM

SIGNED: 07/06/2016

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

MULLION HORIZONTAL ROYAL SERIES
SINGLE AND DOUBLE DOORS WITH TRANSOM
NOTES

DRAWN:	DWG NO.	REV
V.L.	08–02903	–

SCALE	DATE	SHEET
NTS	06/06/16	1 OF 23

LUIS R. LOMAS LICENSE No. 62514 STATE OF FLORIDA PROFESSIONAL ENGINEER

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

CHART #1

Maximum design pressure capacity chart (psf)
Single door with a transom height of: 18"
Design pressures are positive and negative

Height (in)		Unit width (in)							
Door	Transom	24.0	27.0	30.0	33.0	36.6	48.0	54.0	60.0
80.0	18.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
82.0	18.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84.0	18.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
86.0	18.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
88.0	18.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
90.0	18.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
92.0	18.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
94.0	18.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
95.5	18.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

IMPACT RATED UP TO WIND ZONE 3

CHART #2

Maximum design pressure capacity chart (psf)
Single door with a transom height of: 24"
Design pressures are positive and negative

Height (in)		Unit width (in)							
Door	Transom	18.0	24.0	30.0	36.0	42.0	48.0	54.0	60.0
80.0	24.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
82.0	24.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84.0	24.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
86.0	24.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
88.0	24.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
90.0	24.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
92.0	24.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
94.0	24.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
95.5	24.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

IMPACT RATED UP TO WIND ZONE 3

CHART #3

Maximum design pressure capacity chart (psf)
Single door with a transom height of: 30"
Design pressures are positive and negative

Height (in)		Unit width (in)							
Door	Transom	18.0	24.0	30.0	36.0	42.0	48.0	54.0	60.0
80.0	30.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
82.0	30.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84.0	30.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
86.0	30.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
88.0	30.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
90.0	30.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
92.0	30.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
94.0	30.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
95.5	30.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

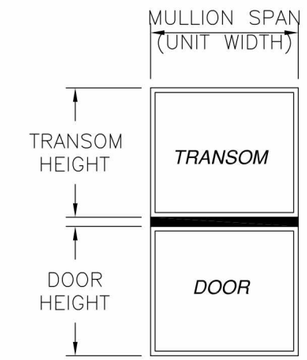
IMPACT RATED UP TO WIND ZONE 3

CHART #4

Maximum design pressure capacity chart (psf)
Single door with a transom height of: 36"
Design pressures are positive and negative

Height (in)		Unit width (in)							
Door	Transom	18.0	24.0	30.0	36.0	42.0	48.0	54.0	60.0
80.0	36.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
82.0	36.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84.0	36.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
86.0	36.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
88.0	36.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
90.0	36.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
92.0	36.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
94.0	36.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
95.5	36.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

IMPACT RATED UP TO WIND ZONE 3



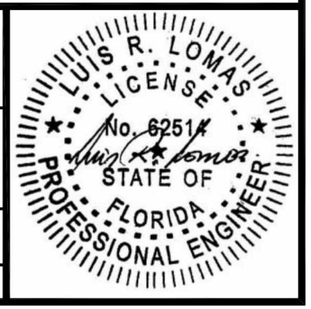
HORIZONTAL MULLION
SINGLE DOOR WITH TRANSOM
SEE CHARTS #1, #2, #3, AND #4 FOR RATINGS

SIGNED: 07/06/2016

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

MULLION HORIZONTAL ROYAL SERIES
SINGLE AND DOUBLE DOORS WITH TRANSOM
SINGLE DOOR WITH TRANSOM

DRAWN:	DWG NO.	REV
V.L.	08-02903	-
SCALE NTS	DATE 06/06/16	SHEET 2 OF 23



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

CHART #5

Maximum design pressure capacity chart (psf)

Double door with transom height of: 18 in

Design pressures are positive and negative

Height (in)		Frame and Panel Width (in.)						
		36.00	*48.00*	*60.00*	*72.00*	*84.00*	*96.00*	*108.00*
Door	Transom	*18.00*	*24.00*	*30.00*	*36.00*	*42.00*	*48.00*	*54.00*
80.00	*18.00*	100.0	100.0	100.0	92.4	67.8	51.9	39.5
82.00	*18.00*	100.0	100.0	100.0	90.6	66.5	50.9	38.8
84.00	*18.00*	100.0	100.0	100.0	88.8	65.2	49.9	38.1
86.00	*18.00*	100.0	100.0	100.0	87.1	63.9	48.9	37.5
88.00	*18.00*	100.0	100.0	100.0	85.4	62.7	48.0	36.8
90.00	*18.00*	100.0	100.0	100.0	83.8	61.5	47.1	36.2
92.00	*18.00*	100.0	100.0	100.0	82.3	60.4	46.2	35.6
94.00	*18.00*	100.0	100.0	100.0	80.8	59.3	45.4	35.1
95.50	*18.00*	100.0	100.0	100.0	79.8	58.5	44.8	34.7

IMPACT RATED UP TO WIND ZONE 3

CHART #6

Maximum design pressure capacity chart (psf)

Double door with transom height of: 24 in

Design pressures are positive and negative

Height (in)		Frame and Panel Width (in.)						
		36.00	*48.00*	*60.00*	*72.00*	*84.00*	*96.00*	*108.00*
Door	Transom	*18.00*	*24.00*	*30.00*	*36.00*	*42.00*	*48.00*	*54.00*
80.00	*24.00*	100.0	100.0	100.0	87.5	64.1	49.0	37.1
82.00	*24.00*	100.0	100.0	100.0	85.8	62.9	48.1	36.5
84.00	*24.00*	100.0	100.0	100.0	84.2	61.8	47.2	35.9
86.00	*24.00*	100.0	100.0	100.0	82.7	60.6	46.4	35.3
88.00	*24.00*	100.0	100.0	100.0	81.2	59.5	45.5	34.8
90.00	*24.00*	100.0	100.0	100.0	79.8	58.5	44.7	34.2
92.00	*24.00*	100.0	100.0	100.0	78.4	57.5	43.9	33.7
94.00	*24.00*	100.0	100.0	100.0	77.0	56.5	43.2	33.2
95.50	*24.00*	100.0	100.0	100.0	76.1	55.8	42.7	32.8

IMPACT RATED UP TO WIND ZONE 3

CHART #7

Maximum design pressure capacity chart (psf)

Double door with transom height of: 30 in

Design pressures are positive and negative

Height (in)		Frame and Panel Width (in.)						
		36.00	*48.00*	*60.00*	*72.00*	*84.00*	*96.00*	*108.00*
Door	Transom	*18.00*	*24.00*	*30.00*	*36.00*	*42.00*	*48.00*	*54.00*
80.00	*30.00*	100.0	100.0	100.0	83.3	61.0	46.6	35.1
82.00	*30.00*	100.0	100.0	100.0	81.8	59.9	45.7	34.5
84.00	*30.00*	100.0	100.0	100.0	80.4	58.8	44.9	34.0
86.00	*30.00*	100.0	100.0	100.0	79.0	57.8	44.1	33.5
88.00	*30.00*	100.0	100.0	100.0	77.6	56.8	43.4	33.0
90.00	*30.00*	100.0	100.0	100.0	76.3	55.8	42.6	32.5
92.00	*30.00*	100.0	100.0	100.0	75.0	54.9	41.9	32.0
94.00	*30.00*	100.0	100.0	100.0	73.8	54.0	41.3	31.6
95.50	*30.00*	100.0	100.0	100.0	72.9	53.4	40.8	31.2

IMPACT RATED UP TO WIND ZONE 3

CHART #8

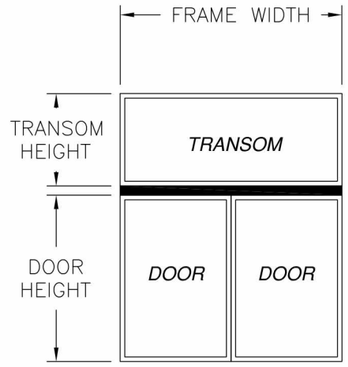
Maximum design pressure capacity chart (psf)

Double door with transom height of: 36 in

Design pressures are positive and negative

Height (in)		Frame and Panel Width (in.)						
		36.00	*48.00*	*60.00*	*72.00*	*84.00*	*96.00*	*108.00*
Door	Transom	*18.00*	*24.00*	*30.00*	*36.00*	*42.00*	*48.00*	*54.00*
80.00	*36.00*	100.0	100.0	100.0	79.8	58.3	44.4	33.3
82.00	*36.00*	100.0	100.0	100.0	78.5	57.2	43.6	32.8
84.00	*36.00*	100.0	100.0	100.0	77.1	56.3	42.9	32.3
86.00	*36.00*	100.0	100.0	100.0	75.8	55.3	42.2	31.9
88.00	*36.00*	100.0	100.0	100.0	74.6	54.4	41.5	31.4
90.00	*36.00*	100.0	100.0	100.0	73.4	53.5	40.8	31.0
92.00	*36.00*	100.0	100.0	100.0	72.2	52.7	40.2	30.5
94.00	*36.00*	100.0	100.0	100.0	71.0	51.9	39.6	30.1
95.50	*36.00*	100.0	100.0	100.0	70.2	51.3	39.1	29.8

IMPACT RATED UP TO WIND ZONE 3



HORIZONTAL MULLION

DOUBLE DOOR WITH TRANSOM

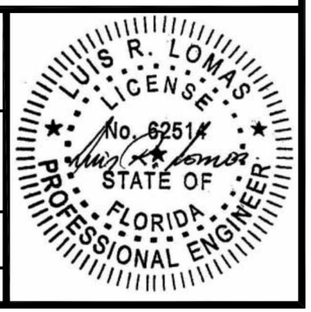
SEE CHARTS #5, #6, #7, AND #8 FOR RATINGS

SIGNED: 07/06/2016

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

MULLION HORIZONTAL ROYAL SERIES
SINGLE AND DOUBLE DOORS WITH TRANSOM
DOUBLE DOOR WITH TRANSOM

DRAWN:	DWG NO.	REV
V.L.	08-02903	–
SCALE NTS	DATE 06/06/16	SHEET 3 OF 23



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

CHART #9

Ratings for single door with 12 in wide sidelites and 18 in high transom (psf)									
Height (in)		Frame and door panel width (in)								
		36.00	39.00	42.00	45.00	48.00	51.00	54.00	57.00	60.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	18.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84.00	18.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
88.00	18.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
92.00	18.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
96.00	18.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

IMPACT RATED UP TO WIND ZONE 3

CHART #10

Ratings for single door with 18 in wide sidelites and 18 in high transom (psf)									
Height (in)		Frame and door panel width (in)								
		42.00	45.00	48.00	51.00	54.00	57.00	60.00	63.00	66.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	18.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84.00	18.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
88.00	18.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
92.00	18.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	97.6
96.00	18.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.2

IMPACT RATED UP TO WIND ZONE 3

CHART #11

Ratings for single door with 24 in wide sidelites and 18 in high transom (psf)									
Height (in)		Frame and door panel width (in)								
		48.00	51.00	54.00	57.00	60.00	63.00	66.00	69.00	72.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	18.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	92.1
84.00	18.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.3	88.5
88.00	18.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	92.7	85.1
92.00	18.00	100.0	100.0	100.0	100.0	100.0	100.0	97.6	89.3	82.0
96.00	18.00	100.0	100.0	100.0	100.0	100.0	100.0	94.2	86.2	79.1

IMPACT RATED UP TO WIND ZONE 3

CHART #12

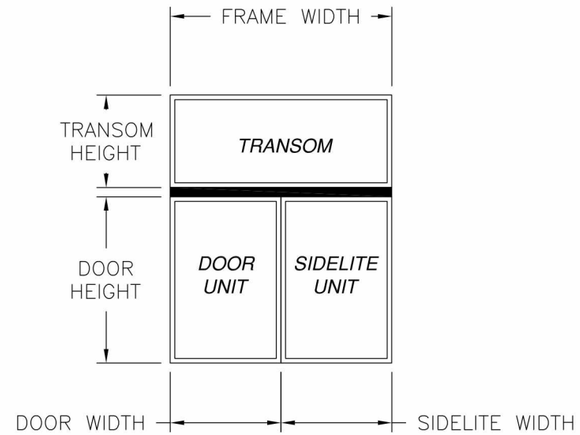
Ratings for single door with 30 in wide sidelites and 18 in high transom (psf)									
Height (in)		Frame and door panel width (in)								
		54.00	57.00	60.00	63.00	66.00	69.00	72.00	75.00	78.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	18.00	100.0	100.0	100.0	100.0	100.0	100.0	92.1	84.9	78.5
84.00	18.00	100.0	100.0	100.0	100.0	100.0	96.3	88.5	81.5	75.4
88.00	18.00	100.0	100.0	100.0	100.0	100.0	92.7	85.1	78.4	72.5
92.00	18.00	100.0	100.0	100.0	100.0	97.6	89.3	82.0	75.6	69.9
96.00	18.00	100.0	100.0	100.0	100.0	94.2	86.2	79.1	72.9	67.4

IMPACT RATED UP TO WIND ZONE 3

CHART #13

Ratings for single door with 36 in wide sidelites and 18 in high transom (psf)										
Height (in)		Frame and door panel width (in)								
		60.00	63.00	66.00	69.00	72.00	75.00	78.00	81.00	84.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	18.00	100.0	100.0	100.0	100.0	92.1	84.9	78.5	72.7	67.6
84.00	18.00	100.0	100.0	100.0	96.3	88.5	81.5	75.4	69.9	65.0
88.00	18.00	100.0	100.0	100.0	92.7	85.1	78.4	72.5	67.3	62.5
92.00	18.00	100.0	100.0	97.6	89.3	82.0	75.6	69.9	64.8	60.3
96.00	18.00	100.0	100.0	94.2	86.2	79.1	72.9	67.4	62.5	58.1

IMPACT RATED UP TO WIND ZONE 3



HORIZONTAL MULLION

SINGLE UNITS WITH SIDELITE & TRANSOM
SEE CHARTS #9, #10, #11, #12 AND #13 FOR RATINGS

SIGNED: 07/06/2016

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

MULLION HORIZONTAL ROYAL SERIES
SINGLE AND DOUBLE DOORS WITH TRANSOM
SINGLE DOOR WITH SIDELITE AND 18" TRANSOM

DRAWN:	DWG NO.	REV
V.L.	08-02903	-
SCALE NTS	DATE 06/06/16	SHEET 4 OF 23

LUIS R. LOMAS LICENSE No. 62514 STATE OF FLORIDA PROFESSIONAL ENGINEER

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

CHART #14

Ratings for single door with 12 in wide sidelites and 24 in high transom (psf)									
Height (in)		Frame and door panel width (in)								
		36.00	39.00	42.00	45.00	48.00	51.00	54.00	57.00	60.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	24.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84.00	24.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
88.00	24.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
92.00	24.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
96.00	24.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

IMPACT RATED UP TO WIND ZONE 3

CHART #15

Ratings for single door with 18 in wide sidelites and 24 in high transom (psf)									
Height (in)		Frame and door panel width (in)								
		42.00	45.00	48.00	51.00	54.00	57.00	60.00	63.00	66.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	24.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84.00	24.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.4
88.00	24.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	95.9
92.00	24.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	92.6
96.00	24.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.2	89.5

IMPACT RATED UP TO WIND ZONE 3

CHART #16

Ratings for single door with 24 in wide sidelites and 24 in high transom (psf)									
Height (in)		Frame and door panel width (in)								
		48.00	51.00	54.00	57.00	60.00	63.00	66.00	69.00	72.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	24.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.5	86.8
84.00	24.00	100.0	100.0	100.0	100.0	100.0	100.0	99.4	91.0	83.5
88.00	24.00	100.0	100.0	100.0	100.0	100.0	100.0	95.9	87.7	80.6
92.00	24.00	100.0	100.0	100.0	100.0	100.0	100.0	92.6	84.7	77.8
96.00	24.00	100.0	100.0	100.0	100.0	100.0	98.2	89.5	81.9	75.2

IMPACT RATED UP TO WIND ZONE 3

CHART #17

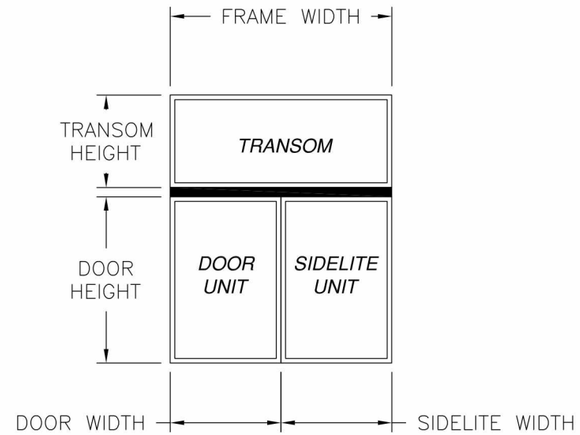
Ratings for single door with 30 in wide sidelites and 24 in high transom (psf)									
Height (in)		Frame and door panel width (in)								
		54.00	57.00	60.00	63.00	66.00	69.00	72.00	75.00	78.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	24.00	100.0	100.0	100.0	100.0	100.0	94.5	86.8	80.0	73.9
84.00	24.00	100.0	100.0	100.0	100.0	99.4	91.0	83.5	77.0	71.2
88.00	24.00	100.0	100.0	100.0	100.0	95.9	87.7	80.6	74.2	68.6
92.00	24.00	100.0	100.0	100.0	100.0	92.6	84.7	77.8	71.7	66.3
96.00	24.00	100.0	100.0	100.0	98.2	89.5	81.9	75.2	69.3	64.1

IMPACT RATED UP TO WIND ZONE 3

CHART #18

Ratings for single door with 36 in wide sidelites and 24 in high transom (psf)									
Height (in)		Frame and door panel width (in)								
		60.00	63.00	66.00	69.00	72.00	75.00	78.00	81.00	84.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	24.00	100.0	100.0	100.0	94.5	86.8	80.0	73.9	68.5	63.7
84.00	24.00	100.0	100.0	99.4	91.0	83.5	77.0	71.2	66.0	61.4
88.00	24.00	100.0	100.0	95.9	87.7	80.6	74.2	68.6	63.7	59.2
92.00	24.00	100.0	100.0	92.6	84.7	77.8	71.7	66.3	61.5	57.1
96.00	24.00	100.0	98.2	89.5	81.9	75.2	69.3	64.1	59.4	55.2

IMPACT RATED UP TO WIND ZONE 3



HORIZONTAL MULLION

SINGLE UNITS WITH SIDELITE & TRANSOM
SEE CHARTS #14, #15, #16, #17 AND #18 FOR RATINGS

SIGNED: 07/06/2016

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

MULLION HORIZONTAL ROYAL SERIES
SINGLE AND DOUBLE DOORS WITH TRANSOM
SINGLE DOOR WITH SIDELITE AND 24" TRANSOM

DRAWN:	DWG NO.	REV
V.L.	08-02903	-
SCALE NTS	DATE 06/06/16	SHEET 5 OF 23

LUIS R. LOMAS LICENSE No. 62514 STATE OF FLORIDA PROFESSIONAL ENGINEER

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

CHART #19

Ratings for single door with 12 in wide sidelites and 30 in high transom (psf)									
Height (in)		Frame and door panel width (in)								
		36.00	39.00	42.00	45.00	48.00	51.00	54.00	57.00	60.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	30.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84.00	30.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
88.00	30.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
92.00	30.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
96.00	30.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

IMPACT RATED UP TO WIND ZONE 3

CHART #20

Ratings for single door with 18 in wide sidelites and 30 in high transom (psf)									
Height (in)		Frame and door panel width (in)								
		42.00	45.00	48.00	51.00	54.00	57.00	60.00	63.00	66.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	30.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	97.6
84.00	30.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.2
88.00	30.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	91.0
92.00	30.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.6	88.0
96.00	30.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	93.5	85.2

IMPACT RATED UP TO WIND ZONE 3

CHART #21

Ratings for single door with 24 in wide sidelites and 30 in high transom (psf)									
Height (in)		Frame and door panel width (in)								
		48.00	51.00	54.00	57.00	60.00	63.00	66.00	69.00	72.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	30.00	100.0	100.0	100.0	100.0	100.0	100.0	97.6	89.3	82.0
84.00	30.00	100.0	100.0	100.0	100.0	100.0	100.0	94.2	86.2	79.1
88.00	30.00	100.0	100.0	100.0	100.0	100.0	99.9	91.0	83.3	76.5
92.00	30.00	100.0	100.0	100.0	100.0	100.0	96.6	88.0	80.5	74.0
96.00	30.00	100.0	100.0	100.0	100.0	100.0	93.5	85.2	78.0	71.6

IMPACT RATED UP TO WIND ZONE 3

CHART #22

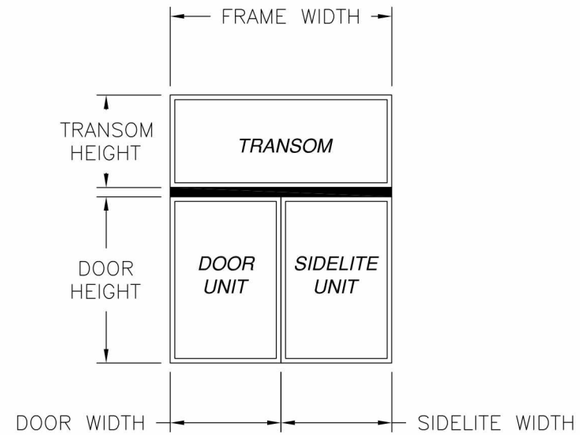
Ratings for single door with 30 in wide sidelites and 30 in high transom (psf)									
Height (in)		Frame and door panel width (in)								
		54.00	57.00	60.00	63.00	66.00	69.00	72.00	75.00	78.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	30.00	100.0	100.0	100.0	100.0	97.6	89.3	82.0	75.6	69.9
84.00	30.00	100.0	100.0	100.0	100.0	94.2	86.2	79.1	72.9	67.4
88.00	30.00	100.0	100.0	100.0	99.9	91.0	83.3	76.5	70.5	65.2
92.00	30.00	100.0	100.0	100.0	96.6	88.0	80.5	74.0	68.2	63.0
96.00	30.00	100.0	100.0	100.0	93.5	85.2	78.0	71.6	66.0	61.0

IMPACT RATED UP TO WIND ZONE 3

CHART #23

Ratings for single door with 36 in wide sidelites and 30 in high transom (psf)										
Height (in)		Frame and door panel width (in)								
		60.00	63.00	66.00	69.00	72.00	75.00	78.00	81.00	84.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	30.00	100.0	100.0	97.6	89.3	82.0	75.6	69.9	64.8	60.3
84.00	30.00	100.0	100.0	94.2	86.2	79.1	72.9	67.4	62.5	58.1
88.00	30.00	100.0	99.9	91.0	83.3	76.5	70.5	65.2	60.4	56.2
92.00	30.00	100.0	96.6	88.0	80.5	74.0	68.2	63.0	58.4	54.3
96.00	30.00	100.0	93.5	85.2	78.0	71.6	66.0	61.0	56.6	52.6

IMPACT RATED UP TO WIND ZONE 3



HORIZONTAL MULLION

SINGLE UNITS WITH SIDELITE & TRANSOM
SEE CHARTS #19, #20, #21, #22 AND #23 FOR RATINGS

SIGNED: 07/06/2016

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

MULLION HORIZONTAL ROYAL SERIES
SINGLE AND DOUBLE DOORS WITH TRANSOM
SINGLE DOOR WITH SIDELITE AND 30" TRANSOM

DRAWN:	DWG NO.	REV
V.L.	08-02903	-
SCALE NTS	DATE 06/06/16	SHEET 6 OF 23

LUIS R. LOMAS LICENSE No. 62514 STATE OF FLORIDA PROFESSIONAL ENGINEER

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

CHART #24

Ratings for single door with 12 in wide sidelites and 36 in high transom (psf)										
Height (in)		Frame and door panel width (in)								
		36.00	39.00	42.00	45.00	48.00	51.00	54.00	57.00	60.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	36.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84.00	36.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
88.00	36.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
92.00	36.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
96.00	36.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.4

IMPACT RATED UP TO WIND ZONE 3

CHART #25

Ratings for single door with 18 in wide sidelites and 36 in high transom (psf)										
Height (in)		Frame and door panel width (in)								
		42.00	45.00	48.00	51.00	54.00	57.00	60.00	63.00	66.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	36.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	92.6
84.00	36.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.2	89.5
88.00	36.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	95.0	86.6
92.00	36.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	92.1	83.9
96.00	36.00	100.0	100.0	100.0	100.0	100.0	100.0	98.4	89.3	81.3

IMPACT RATED UP TO WIND ZONE 3

CHART #26

Ratings for single door with 24 in wide sidelites and 36 in high transom (psf)										
Height (in)		Frame and door panel width (in)								
		48.00	51.00	54.00	57.00	60.00	63.00	66.00	69.00	72.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	36.00	100.0	100.0	100.0	100.0	100.0	100.0	92.6	84.7	77.8
84.00	36.00	100.0	100.0	100.0	100.0	100.0	98.2	89.5	81.9	75.2
88.00	36.00	100.0	100.0	100.0	100.0	100.0	95.0	86.6	79.2	72.8
92.00	36.00	100.0	100.0	100.0	100.0	100.0	92.1	83.9	76.8	70.5
96.00	36.00	100.0	100.0	100.0	100.0	98.4	89.3	81.3	74.4	68.4

IMPACT RATED UP TO WIND ZONE 3

CHART #27

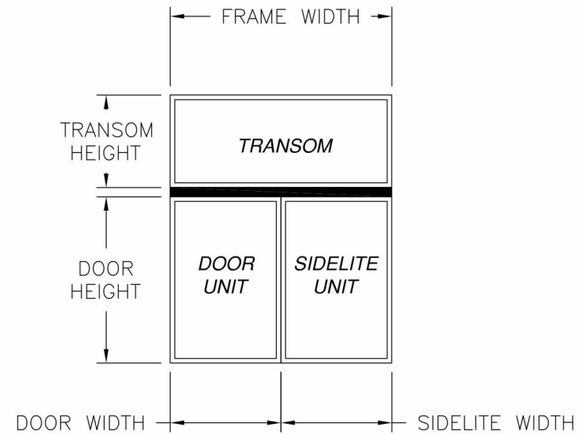
Ratings for single door with 30 in wide sidelites and 36 in high transom (psf)										
Height (in)		Frame and door panel width (in)								
		54.00	57.00	60.00	63.00	66.00	69.00	72.00	75.00	78.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	36.00	100.0	100.0	100.0	100.0	92.6	84.7	77.8	71.7	66.3
84.00	36.00	100.0	100.0	100.0	98.2	89.5	81.9	75.2	69.3	64.1
88.00	36.00	100.0	100.0	100.0	95.0	86.6	79.2	72.8	67.1	62.0
92.00	36.00	100.0	100.0	100.0	92.1	83.9	76.8	70.5	65.0	60.1
96.00	36.00	100.0	100.0	98.4	89.3	81.3	74.4	68.4	63.0	58.2

IMPACT RATED UP TO WIND ZONE 3

CHART #28

Ratings for single door with 36 in wide sidelites and 36 in high transom (psf)										
Height (in)		Frame and door panel width (in)								
		60.00	63.00	66.00	69.00	72.00	75.00	78.00	81.00	84.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	36.00	100.0	100.0	92.6	84.7	77.8	71.7	66.3	61.5	57.1
84.00	36.00	100.0	98.2	89.5	81.9	75.2	69.3	64.1	59.4	55.2
88.00	36.00	100.0	95.0	86.6	79.2	72.8	67.1	62.0	57.5	53.5
92.00	36.00	100.0	92.1	83.9	76.8	70.5	65.0	60.1	55.7	51.8
96.00	36.00	98.4	89.3	81.3	74.4	68.4	63.0	58.2	54.0	50.2

IMPACT RATED UP TO WIND ZONE 3



HORIZONTAL MULLION

SINGLE UNITS WITH SIDELITE & TRANSOM
SEE CHARTS #24, #25, #26, #27 AND #28 FOR RATINGS

SIGNED: 07/06/2016

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

MULLION HORIZONTAL ROYAL SERIES
SINGLE AND DOUBLE DOORS WITH TRANSOM
SINGLE DOOR WITH SIDELITE AND 36" TRANSOM

DRAWN:	DWG NO.	REV
V.L.	08-02903	-
SCALE NTS	DATE 06/06/16	SHEET 7 OF 23

LUIS R. LOMAS LICENSE No. 62514 STATE OF FLORIDA PROFESSIONAL ENGINEER

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

CHART #29

Ratings for single door with 12 in wide sidelites and 18 in high transom (psf)									
Height (in)		Frame and door panel width (in)								
		48.00	51.00	54.00	57.00	60.00	63.00	66.00	69.00	72.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	18.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	92.1
84.00	18.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.3	88.5
88.00	18.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	92.7	85.1
92.00	18.00	100.0	100.0	100.0	100.0	100.0	100.0	97.6	89.3	82.0
96.00	18.00	100.0	100.0	100.0	100.0	100.0	100.0	94.2	86.2	79.1

IMPACT RATED UP TO WIND ZONE 3

CHART #30

Ratings for single door with 18 in wide sidelites and 18 in high transom (psf)									
Height (in)		Frame and door panel width (in)								
		60.00	63.00	66.00	69.00	72.00	75.00	78.00	81.00	84.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	18.00	100.0	100.0	100.0	100.0	92.1	84.9	78.5	72.7	67.6
84.00	18.00	100.0	100.0	100.0	96.3	88.5	81.5	75.4	69.9	65.0
88.00	18.00	100.0	100.0	100.0	92.7	85.1	78.4	72.5	67.3	62.5
92.00	18.00	100.0	100.0	97.6	89.3	82.0	75.6	69.9	64.8	60.3
96.00	18.00	100.0	100.0	94.2	86.2	79.1	72.9	67.4	62.5	58.1

IMPACT RATED UP TO WIND ZONE 3

CHART #31

Ratings for single door with 24 in wide sidelites and 18 in high transom (psf)									
Height (in)		Frame and door panel width (in)								
		72.00	75.00	78.00	81.00	84.00	87.00	90.00	93.00	96.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	18.00	92.1	84.9	78.5	72.7	67.6	63.1	58.9	55.2	51.5
84.00	18.00	88.5	81.5	75.4	69.9	65.0	60.6	56.6	53.0	49.5
88.00	18.00	85.1	78.4	72.5	67.3	62.5	58.3	54.5	51.0	47.6
92.00	18.00	82.0	75.6	69.9	64.8	60.3	56.2	52.5	49.2	45.9
96.00	18.00	79.1	72.9	67.4	62.5	58.1	54.2	50.7	47.4	44.3

IMPACT RATED UP TO WIND ZONE 3

CHART #32

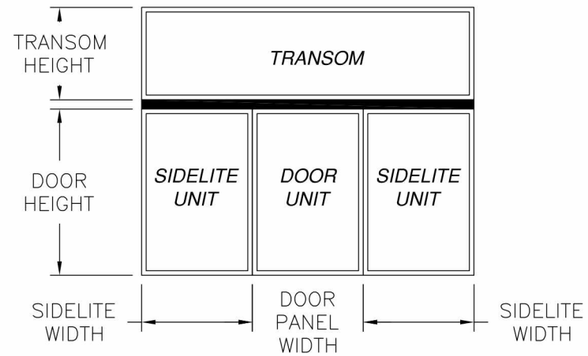
Ratings for single door with 30 in wide sidelites and 18 in high transom (psf)									
Height (in)		Frame and door panel width (in)								
		84.00	87.00	90.00	93.00	96.00	99.00	102.00	105.00	108.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	18.00	67.6	63.1	58.9	55.2	51.5	47.0	43.0	39.4	36.2
84.00	18.00	65.0	60.6	56.6	53.0	49.5	45.1	41.3	37.8	34.8
88.00	18.00	62.5	58.3	54.5	51.0	47.6	43.4	39.7	36.4	33.5
92.00	18.00	60.3	56.2	52.5	49.2	45.9	41.9	38.3	35.1	32.2
96.00	18.00	58.1	54.2	50.7	47.4	44.3	40.4	36.9	33.9	31.1

IMPACT RATED UP TO WIND ZONE 3

CHART #33

Ratings for single door with 36 in wide sidelites and 18 in high transom (psf)										
Height (in)		Frame and door panel width (in)								
		96.00	99.00	102.00	105.00	108.00	111.00	114.00	117.00	120.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	18.00	51.5	47.0	43.0	39.4	36.2	33.3	30.8	28.5	26.4
84.00	18.00	49.5	45.1	41.3	37.8	34.8	32.0	29.6	27.3	25.3
88.00	18.00	47.6	43.4	39.7	36.4	33.5	30.8	28.5	26.3	24.4
92.00	18.00	45.9	41.9	38.3	35.1	32.2	29.7	27.4	25.4	23.5
96.00	18.00	44.3	40.4	36.9	33.9	31.1	28.7	26.5	24.5	22.7

IMPACT RATED UP TO WIND ZONE 3



HORIZONTAL MULLION

SINGLE DOOR WITH SIDELITES & TRANSOM
SEE CHARTS #29, #30, #31, #32 AND #33 FOR RATINGS

SIGNED: 07/06/2016

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

MULLION HORIZONTAL ROYAL SERIES
SINGLE AND DOUBLE DOORS WITH TRANSOM
SINGLE DOOR WITH SIDELITES AND 18" TRANSOM

DRAWN:	DWG NO.	REV
V.L.	08-02903	–
SCALE NTS	DATE 06/06/16	SHEET 8 OF 23

LUIS R. LOMAS LICENSE No. 62514 STATE OF FLORIDA PROFESSIONAL ENGINEER

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

CHART #34

Ratings for single door with 12 in wide sidelites and 24 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		48.00	51.00	54.00	57.00	60.00	63.00	66.00	69.00	72.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	24.00	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.5	86.8
84.00	24.00	100.0	100.0	100.0	100.0	100.0	100.0	99.4	91.0	83.5
88.00	24.00	100.0	100.0	100.0	100.0	100.0	100.0	95.9	87.7	80.6
92.00	24.00	100.0	100.0	100.0	100.0	100.0	100.0	92.6	84.7	77.8
96.00	24.00	100.0	100.0	100.0	100.0	100.0	98.2	89.5	81.9	75.2

IMPACT RATED UP TO WIND ZONE 3

CHART #35

Ratings for single door with 18 in wide sidelites and 24 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		60.00	63.00	66.00	69.00	72.00	75.00	78.00	81.00	84.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	24.00	100.0	100.0	100.0	94.5	86.8	80.0	73.9	68.5	63.7
84.00	24.00	100.0	100.0	99.4	91.0	83.5	77.0	71.2	66.0	61.4
88.00	24.00	100.0	100.0	95.9	87.7	80.6	74.2	68.6	63.7	59.2
92.00	24.00	100.0	100.0	92.6	84.7	77.8	71.7	66.3	61.5	57.1
96.00	24.00	100.0	98.2	89.5	81.9	75.2	69.3	64.1	59.4	55.2

IMPACT RATED UP TO WIND ZONE 3

CHART #36

Ratings for single door with 24 in wide sidelites and 24 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		72.00	75.00	78.00	81.00	84.00	87.00	90.00	93.00	96.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	24.00	86.8	80.0	73.9	68.5	63.7	59.4	55.5	52.0	48.6
84.00	24.00	83.5	77.0	71.2	66.0	61.4	57.2	53.5	50.1	46.8
88.00	24.00	80.6	74.2	68.6	63.7	59.2	55.2	51.6	48.3	45.1
92.00	24.00	77.8	71.7	66.3	61.5	57.1	53.3	49.8	46.6	43.5
96.00	24.00	75.2	69.3	64.1	59.4	55.2	51.5	48.1	45.1	42.1

IMPACT RATED UP TO WIND ZONE 3

CHART #37

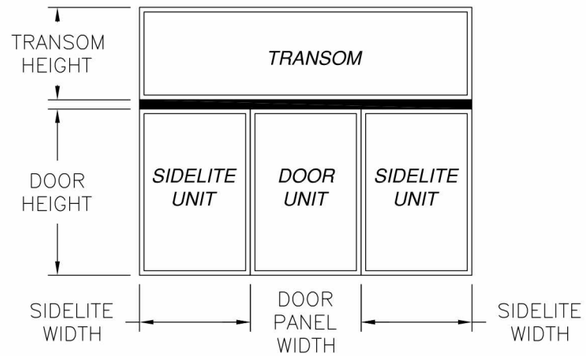
Ratings for single door with 30 in wide sidelites and 24 in high transom (psf)										
Height (in)		Frame and door panel width (in)								
		84.00	87.00	90.00	93.00	96.00	99.00	102.00	105.00	108.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	24.00	63.7	59.4	55.5	52.0	48.6	44.3	40.5	37.1	34.1
84.00	24.00	61.4	57.2	53.5	50.1	46.8	42.6	39.0	35.7	32.8
88.00	24.00	59.2	55.2	51.6	48.3	45.1	41.1	37.6	34.5	31.7
92.00	24.00	57.1	53.3	49.8	46.6	43.5	39.7	36.3	33.3	30.6
96.00	24.00	55.2	51.5	48.1	45.1	42.1	38.4	35.1	32.2	29.6

IMPACT RATED UP TO WIND ZONE 3

CHART #38

Ratings for single door with 36 in wide sidelites and 24 in high transom (psf)										
Height (in)		Frame and door panel width (in)								
		96.00	99.00	102.00	105.00	108.00	111.00	114.00	117.00	120.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	24.00	48.6	44.3	40.5	37.1	34.1	31.4	29.0	26.8	24.9
84.00	24.00	46.8	42.6	39.0	35.7	32.8	30.2	27.9	25.8	23.9
88.00	24.00	45.1	41.1	37.6	34.5	31.7	29.2	26.9	24.9	23.1
92.00	24.00	43.5	39.7	36.3	33.3	30.6	28.2	26.0	24.0	22.3
96.00	24.00	42.1	38.4	35.1	32.2	29.6	27.2	25.1	23.2	21.5

IMPACT RATED UP TO WIND ZONE 3



HORIZONTAL MULLION

SINGLE UNITS WITH SIDELITES & TRANSOM

SEE CHARTS #34, #35, #36, #37 AND #38 FOR RATINGS

SIGNED: 07/06/2016

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

MULLION HORIZONTAL ROYAL SERIES
SINGLE AND DOUBLE DOORS WITH TRANSOM
SINGLE DOOR WITH SIDELITES AND 24" TRANSOM

DRAWN:	DWG NO.	REV
V.L.	08-02903	–
SCALE NTS	DATE 06/06/16	SHEET 9 OF 23

LUIS R. LOMAS LICENSE No. 62514 STATE OF FLORIDA PROFESSIONAL ENGINEER

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

CHART #39

Ratings for single door with 12 in wide sidelites and 30 in high transom (psf)									
Height (in)		Frame and door panel width (in)								
		48.00	51.00	54.00	57.00	60.00	63.00	66.00	69.00	72.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	30.00	100.0	100.0	100.0	100.0	100.0	100.0	97.6	89.3	82.0
84.00	30.00	100.0	100.0	100.0	100.0	100.0	100.0	94.2	86.2	79.1
88.00	30.00	100.0	100.0	100.0	100.0	100.0	99.9	91.0	83.3	76.5
92.00	30.00	100.0	100.0	100.0	100.0	100.0	96.6	88.0	80.5	74.0
96.00	30.00	100.0	100.0	100.0	100.0	100.0	93.5	85.2	78.0	71.6

IMPACT RATED UP TO WIND ZONE 3

CHART #40

Ratings for single door with 18 in wide sidelites and 30 in high transom (psf)									
Height (in)		Frame and door panel width (in)								
		60.00	63.00	66.00	69.00	72.00	75.00	78.00	81.00	84.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	30.00	100.0	100.0	97.6	89.3	82.0	75.6	69.9	64.8	60.3
84.00	30.00	100.0	100.0	94.2	86.2	79.1	72.9	67.4	62.5	58.1
88.00	30.00	100.0	99.9	91.0	83.3	76.5	70.5	65.2	60.4	56.2
92.00	30.00	100.0	96.6	88.0	80.5	74.0	68.2	63.0	58.4	54.3
96.00	30.00	100.0	93.5	85.2	78.0	71.6	66.0	61.0	56.6	52.6

IMPACT RATED UP TO WIND ZONE 3

CHART #41

Ratings for single door with 24 in wide sidelites and 30 in high transom (psf)									
Height (in)		Frame and door panel width (in)								
		72.00	75.00	78.00	81.00	84.00	87.00	90.00	93.00	96.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	30.00	82.0	75.6	69.9	64.8	60.3	56.2	52.5	49.2	45.9
84.00	30.00	79.1	72.9	67.4	62.5	58.1	54.2	50.7	47.4	44.3
88.00	30.00	76.5	70.5	65.2	60.4	56.2	52.4	48.9	45.8	42.8
92.00	30.00	74.0	68.2	63.0	58.4	54.3	50.7	47.3	44.3	41.4
96.00	30.00	71.6	66.0	61.0	56.6	52.6	49.0	45.8	42.9	40.1

IMPACT RATED UP TO WIND ZONE 3

CHART #42

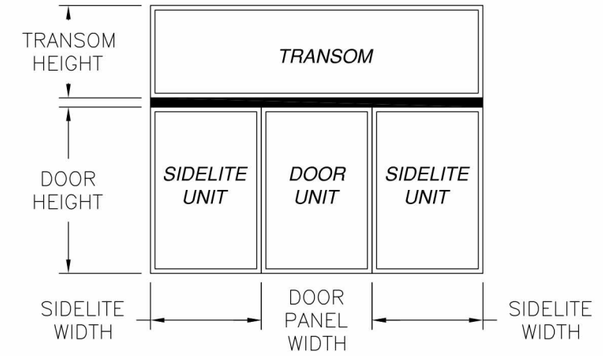
Ratings for single door with 30 in wide sidelites and 30 in high transom (psf)									
Height (in)		Frame and door panel width (in)								
		84.00	87.00	90.00	93.00	96.00	99.00	102.00	105.00	108.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	30.00	60.3	56.2	52.5	49.2	45.9	41.9	38.3	35.1	32.2
84.00	30.00	58.1	54.2	50.7	47.4	44.3	40.4	36.9	33.9	31.1
88.00	30.00	56.2	52.4	48.9	45.8	42.8	39.0	35.7	32.7	30.1
92.00	30.00	54.3	50.7	47.3	44.3	41.4	37.7	34.5	31.6	29.1
96.00	30.00	52.6	49.0	45.8	42.9	40.1	36.5	33.4	30.6	28.1

IMPACT RATED UP TO WIND ZONE 3

CHART #43

Ratings for single door with 36 in wide sidelites and 30 in high transom (psf)									
Height (in)		Frame and door panel width (in)								
		96.00	99.00	102.00	105.00	108.00	111.00	114.00	117.00	120.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	30.00	45.9	41.9	38.3	35.1	32.2	29.7	27.4	25.4	23.5
84.00	30.00	44.3	40.4	36.9	33.9	31.1	28.7	26.5	24.5	22.7
88.00	30.00	42.8	39.0	35.7	32.7	30.1	27.7	25.6	23.6	21.9
92.00	30.00	41.4	37.7	34.5	31.6	29.1	26.8	24.7	22.9	21.2
96.00	30.00	40.1	36.5	33.4	30.6	28.1	25.9	23.9	22.1	20.5

IMPACT RATED UP TO WIND ZONE 3



HORIZONTAL MULLION

SINGLE UNITS WITH SIDELITES & TRANSOM
SEE CHARTS #39, #40, #41, #42 AND #43 FOR RATINGS

SIGNED: 07/06/2016

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

MULLION HORIZONTAL ROYAL SERIES
SINGLE AND DOUBLE DOORS WITH TRANSOM
SINGLE DOOR WITH SIDELITES AND 30" TRANSOM

DRAWN:	DWG NO.	REV
V.L.	08-02903	–

SCALE	DATE	SHEET
NTS	06/06/16	10 OF 23

LUIS R. LOMAS LICENSE No. 62514 STATE OF FLORIDA PROFESSIONAL ENGINEER

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

CHART #44

Ratings for single door with 12 in wide sidelites and 36 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		48.00	51.00	54.00	57.00	60.00	63.00	66.00	69.00	72.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	36.00	100.0	100.0	100.0	100.0	100.0	100.0	92.6	84.7	77.8
84.00	36.00	100.0	100.0	100.0	100.0	100.0	98.2	89.5	81.9	75.2
88.00	36.00	100.0	100.0	100.0	100.0	100.0	95.0	86.6	79.2	72.8
92.00	36.00	100.0	100.0	100.0	100.0	100.0	92.1	83.9	76.8	70.5
96.00	36.00	100.0	100.0	100.0	100.0	98.4	89.3	81.3	74.4	68.4

IMPACT RATED UP TO WIND ZONE 3

CHART #45

Ratings for single door with 18 in wide sidelites and 36 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		60.00	63.00	66.00	69.00	72.00	75.00	78.00	81.00	84.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	36.00	100.0	100.0	92.6	84.7	77.8	71.7	66.3	61.5	57.1
84.00	36.00	100.0	98.2	89.5	81.9	75.2	69.3	64.1	59.4	55.2
88.00	36.00	100.0	95.0	86.6	79.2	72.8	67.1	62.0	57.5	53.5
92.00	36.00	100.0	92.1	83.9	76.8	70.5	65.0	60.1	55.7	51.8
96.00	36.00	98.4	89.3	81.3	74.4	68.4	63.0	58.2	54.0	50.2

IMPACT RATED UP TO WIND ZONE 3

CHART #46

Ratings for single door with 24 in wide sidelites and 36 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		72.00	75.00	78.00	81.00	84.00	87.00	90.00	93.00	96.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	36.00	77.8	71.7	66.3	61.5	57.1	53.3	49.8	46.6	43.5
84.00	36.00	75.2	69.3	64.1	59.4	55.2	51.5	48.1	45.1	42.1
88.00	36.00	72.8	67.1	62.0	57.5	53.5	49.8	46.6	43.6	40.7
92.00	36.00	70.5	65.0	60.1	55.7	51.8	48.3	45.1	42.3	39.5
96.00	36.00	68.4	63.0	58.2	54.0	50.2	46.8	43.7	41.0	38.3

IMPACT RATED UP TO WIND ZONE 3

CHART #47

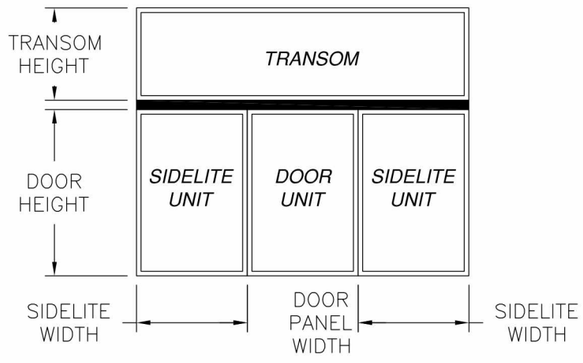
Ratings for single door with 30 in wide sidelites and 36 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		84.00	87.00	90.00	93.00	96.00	99.00	102.00	105.00	108.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	36.00	57.1	53.3	49.8	46.6	43.5	39.7	36.3	33.3	30.6
84.00	36.00	55.2	51.5	48.1	45.1	42.1	38.4	35.1	32.2	29.6
88.00	36.00	53.5	49.8	46.6	43.6	40.7	37.1	34.0	31.1	28.6
92.00	36.00	51.8	48.3	45.1	42.3	39.5	36.0	32.9	30.2	27.7
96.00	36.00	50.2	46.8	43.7	41.0	38.3	34.9	31.9	29.2	26.9

IMPACT RATED UP TO WIND ZONE 3

CHART #48

Ratings for single door with 36 in wide sidelites and 36 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		96.00	99.00	102.00	105.00	108.00	111.00	114.00	117.00	120.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	36.00	43.5	39.7	36.3	33.3	30.6	28.2	26.0	24.0	22.3
84.00	36.00	42.1	38.4	35.1	32.2	29.6	27.2	25.1	23.2	21.5
88.00	36.00	40.7	37.1	34.0	31.1	28.6	26.3	24.3	22.5	20.9
92.00	36.00	39.5	36.0	32.9	30.2	27.7	25.5	23.6	21.8	20.2
96.00	36.00	38.3	34.9	31.9	29.2	26.9	24.7	22.8	21.1	19.6

IMPACT RATED UP TO WIND ZONE 3



HORIZONTAL MULLION

SINGLE UNITS WITH SIDELITES & TRANSOM
SEE CHARTS #44, #45, #46, #47 AND #48 FOR RATINGS

SIGNED: 07/06/2016

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

MULLION HORIZONTAL ROYAL SERIES
SINGLE AND DOUBLE DOORS WITH TRANSOM
SINGLE DOOR WITH SIDELITES AND 36" TRANSOM

DRAWN:	DWG NO.	REV
V.L.	08-02903	-
SCALE NTS	DATE 06/06/16	SHEET 11 OF 23

LUIS R. LOMAS LICENSE No. 62514 STATE OF FLORIDA PROFESSIONAL ENGINEER

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

CHART #49

Ratings for double door with 12 in wide sidelite and 18 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		60.00	66.00	72.00	78.00	84.00	90.00	96.00	102.00	108.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	18.00	100.0	100.0	92.1	78.5	67.6	58.9	51.5	43.0	36.2
84.00	18.00	100.0	100.0	88.5	75.4	65.0	56.6	49.5	41.3	34.8
88.00	18.00	100.0	100.0	85.1	72.5	62.5	54.5	47.6	39.7	33.5
92.00	18.00	100.0	97.6	82.0	69.9	60.3	52.5	45.9	38.3	32.2
96.00	18.00	100.0	94.2	79.1	67.4	58.1	50.7	44.3	36.9	31.1

IMPACT RATED UP TO WIND ZONE 3

CHART #50

Ratings for double door with 18 in wide sidelite and 18 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		66.00	72.00	78.00	84.00	90.00	96.00	102.00	108.00	114.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	18.00	100.0	92.1	78.5	67.6	58.9	51.5	43.0	36.2	30.8
84.00	18.00	100.0	88.5	75.4	65.0	56.6	49.5	41.3	34.8	29.6
88.00	18.00	100.0	85.1	72.5	62.5	54.5	47.6	39.7	33.5	28.5
92.00	18.00	97.6	82.0	69.9	60.3	52.5	45.9	38.3	32.2	27.4
96.00	18.00	94.2	79.1	67.4	58.1	50.7	44.3	36.9	31.1	26.5

IMPACT RATED UP TO WIND ZONE 3

CHART #51

Ratings for double door with 24 in wide sidelite and 18 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		72.00	78.00	84.00	90.00	96.00	102.00	108.00	114.00	120.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	18.00	92.1	78.5	67.6	58.9	51.5	43.0	36.2	30.8	26.4
84.00	18.00	88.5	75.4	65.0	56.6	49.5	41.3	34.8	29.6	25.3
88.00	18.00	85.1	72.5	62.5	54.5	47.6	39.7	33.5	28.5	24.4
92.00	18.00	82.0	69.9	60.3	52.5	45.9	38.3	32.2	27.4	23.5
96.00	18.00	79.1	67.4	58.1	50.7	44.3	36.9	31.1	26.5	22.7

IMPACT RATED UP TO WIND ZONE 3

CHART #52

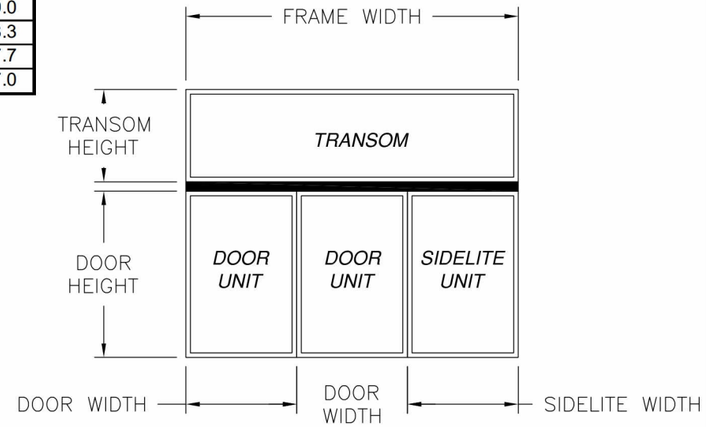
Ratings for double door with 30 in wide sidelite and 18 in high transom (psf)										
Height (in)		Frame and door panel width (in)								
		78.00	84.00	90.00	96.00	102.00	108.00	114.00	120.00	126.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	18.00	78.5	67.6	58.9	51.5	43.0	36.2	30.8	26.4	22.8
84.00	18.00	75.4	65.0	56.6	49.5	41.3	34.8	29.6	25.3	21.9
88.00	18.00	72.5	62.5	54.5	47.6	39.7	33.5	28.5	24.4	21.1
92.00	18.00	69.9	60.3	52.5	45.9	38.3	32.2	27.4	23.5	20.3
96.00	18.00	67.4	58.1	50.7	44.3	36.9	31.1	26.5	22.7	19.6

IMPACT RATED UP TO WIND ZONE 3

CHART #53

Ratings for double door with 36 in wide sidelite and 18 in high transom (psf)										
Height (in)		Frame and door panel width (in)								
		84.00	90.00	96.00	102.00	108.00	114.00	120.00	126.00	132.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	18.00	67.6	58.9	51.5	43.0	36.2	30.8	26.4	22.8	19.8
84.00	18.00	65.0	56.6	49.5	41.3	34.8	29.6	25.3	21.9	19.0
88.00	18.00	62.5	54.5	47.6	39.7	33.5	28.5	24.4	21.1	18.3
92.00	18.00	60.3	52.5	45.9	38.3	32.2	27.4	23.5	20.3	17.7
96.00	18.00	58.1	50.7	44.3	36.9	31.1	26.5	22.7	19.6	17.0

IMPACT RATED UP TO WIND ZONE 3



HORIZONTAL MULLION

DOUBLE DOOR WITH SIDELITE AND TRANSOM

SEE CHARTS #49, #50, #51, #52 AND #53 FOR RATINGS

SIGNED: 07/06/2016

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

MULLION HORIZONTAL ROYAL SERIES
SINGLE AND DOUBLE DOORS WITH TRANSOM
DOUBLE DOOR WITH SIDELITE AND 18" TRANSOM

DRAWN:	DWG NO.	REV
V.L.	08-02903	–
SCALE NTS	DATE 06/06/16	SHEET 12 OF 23

LUIS R. LOMAS LICENSE No. 62514 STATE OF FLORIDA PROFESSIONAL ENGINEER

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

CHART #54

Ratings for double door with 12 in wide sidelite and 24 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		60.00	66.00	72.00	78.00	84.00	90.00	96.00	102.00	108.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	24.00	100.0	100.0	86.8	73.9	63.7	55.5	48.6	40.5	34.1
84.00	24.00	100.0	99.4	83.5	71.2	61.4	53.5	46.8	39.0	32.8
88.00	24.00	100.0	95.9	80.6	68.6	59.2	51.6	45.1	37.6	31.7
92.00	24.00	100.0	92.6	77.8	66.3	57.1	49.8	43.5	36.3	30.6
96.00	24.00	100.0	89.5	75.2	64.1	55.2	48.1	42.1	35.1	29.6

IMPACT RATED UP TO WIND ZONE 3

CHART #55

Ratings for double door with 18 in wide sidelite and 24 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		66.00	72.00	78.00	84.00	90.00	96.00	102.00	108.00	114.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	24.00	100.0	86.8	73.9	63.7	55.5	48.6	40.5	34.1	29.0
84.00	24.00	99.4	83.5	71.2	61.4	53.5	46.8	39.0	32.8	27.9
88.00	24.00	95.9	80.6	68.6	59.2	51.6	45.1	37.6	31.7	26.9
92.00	24.00	92.6	77.8	66.3	57.1	49.8	43.5	36.3	30.6	26.0
96.00	24.00	89.5	75.2	64.1	55.2	48.1	42.1	35.1	29.6	25.1

IMPACT RATED UP TO WIND ZONE 3

CHART #56

Ratings for double door with 24 in wide sidelite and 24 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		72.00	78.00	84.00	90.00	96.00	102.00	108.00	114.00	120.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	24.00	86.8	73.9	63.7	55.5	48.6	40.5	34.1	29.0	24.9
84.00	24.00	83.5	71.2	61.4	53.5	46.8	39.0	32.8	27.9	23.9
88.00	24.00	80.6	68.6	59.2	51.6	45.1	37.6	31.7	26.9	23.1
92.00	24.00	77.8	66.3	57.1	49.8	43.5	36.3	30.6	26.0	22.3
96.00	24.00	75.2	64.1	55.2	48.1	42.1	35.1	29.6	25.1	21.5

IMPACT RATED UP TO WIND ZONE 3

CHART #57

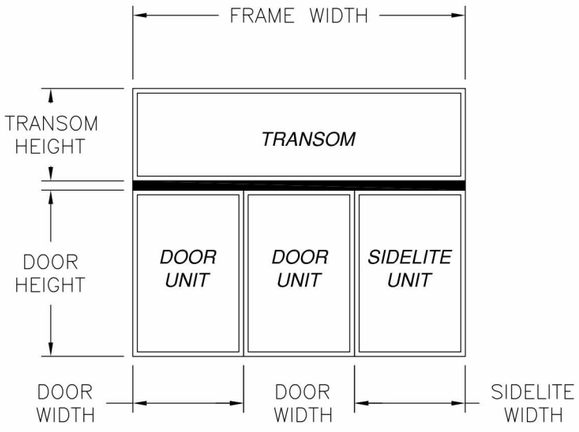
Ratings for double door with 30 in wide sidelite and 24 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		78.00	84.00	90.00	96.00	102.00	108.00	114.00	120.00	126.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	24.00	73.9	63.7	55.5	48.6	40.5	34.1	29.0	24.9	21.5
84.00	24.00	71.2	61.4	53.5	46.8	39.0	32.8	27.9	23.9	20.7
88.00	24.00	68.6	59.2	51.6	45.1	37.6	31.7	26.9	23.1	19.9
92.00	24.00	66.3	57.1	49.8	43.5	36.3	30.6	26.0	22.3	19.3
96.00	24.00	64.1	55.2	48.1	42.1	35.1	29.6	25.1	21.5	18.6

IMPACT RATED UP TO WIND ZONE 3

CHART #58

Ratings for double door with 36 in wide sidelite and 24 in high transom (psf)										
Height (in)		Frame and door panel width (in)								
		84.00	90.00	96.00	102.00	108.00	114.00	120.00	126.00	132.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	24.00	63.7	55.5	48.6	40.5	34.1	29.0	24.9	21.5	18.7
84.00	24.00	61.4	53.5	46.8	39.0	32.8	27.9	23.9	20.7	18.0
88.00	24.00	59.2	51.6	45.1	37.6	31.7	26.9	23.1	19.9	17.3
92.00	24.00	57.1	49.8	43.5	36.3	30.6	26.0	22.3	19.3	16.7
96.00	24.00	55.2	48.1	42.1	35.1	29.6	25.1	21.5	18.6	16.2

IMPACT RATED UP TO WIND ZONE 3



HORIZONTAL MULLION

DOUBLE DOOR WITH SIDELITE & TRANSOM

SEE CHARTS #54, #55, #56, #57 AND #58 FOR RATINGS

SIGNED: 07/06/2016

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

MULLION HORIZONTAL ROYAL SERIES
SINGLE AND DOUBLE DOORS WITH TRANSOM
DOUBLE DOOR WITH SIDELITE AND 24" TRANSOM

DRAWN:	DWG NO.	REV
V.L.	08–02903	–
SCALE NTS	DATE 06/06/16	SHEET 13 OF 23

LUIS R. LOMAS LICENSE No. 62514 STATE OF FLORIDA PROFESSIONAL ENGINEER

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

CHART #59

Ratings for double door with 12 in wide sidelite and 30 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		60.00	66.00	72.00	78.00	84.00	90.00	96.00	102.00	108.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	30.00	100.0	97.6	82.0	69.9	60.3	52.5	45.9	38.3	32.2
84.00	30.00	100.0	94.2	79.1	67.4	58.1	50.7	44.3	36.9	31.1
88.00	30.00	100.0	91.0	76.5	65.2	56.2	48.9	42.8	35.7	30.1
92.00	30.00	100.0	88.0	74.0	63.0	54.3	47.3	41.4	34.5	29.1
96.00	30.00	100.0	85.2	71.6	61.0	52.6	45.8	40.1	33.4	28.1

IMPACT RATED UP TO WIND ZONE 3

CHART #60

Ratings for double door with 18 in wide sidelite and 30 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		66.00	72.00	78.00	84.00	90.00	96.00	102.00	108.00	114.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	30.00	97.6	82.0	69.9	60.3	52.5	45.9	38.3	32.2	27.4
84.00	30.00	94.2	79.1	67.4	58.1	50.7	44.3	36.9	31.1	26.5
88.00	30.00	91.0	76.5	65.2	56.2	48.9	42.8	35.7	30.1	25.6
92.00	30.00	88.0	74.0	63.0	54.3	47.3	41.4	34.5	29.1	24.7
96.00	30.00	85.2	71.6	61.0	52.6	45.8	40.1	33.4	28.1	23.9

IMPACT RATED UP TO WIND ZONE 3

CHART #61

Ratings for double door with 24 in wide sidelite and 30 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		72.00	78.00	84.00	90.00	96.00	102.00	108.00	114.00	120.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	30.00	82.0	69.9	60.3	52.5	45.9	38.3	32.2	27.4	23.5
84.00	30.00	79.1	67.4	58.1	50.7	44.3	36.9	31.1	26.5	22.7
88.00	30.00	76.5	65.2	56.2	48.9	42.8	35.7	30.1	25.6	21.9
92.00	30.00	74.0	63.0	54.3	47.3	41.4	34.5	29.1	24.7	21.2
96.00	30.00	71.6	61.0	52.6	45.8	40.1	33.4	28.1	23.9	20.5

IMPACT RATED UP TO WIND ZONE 3

CHART #62

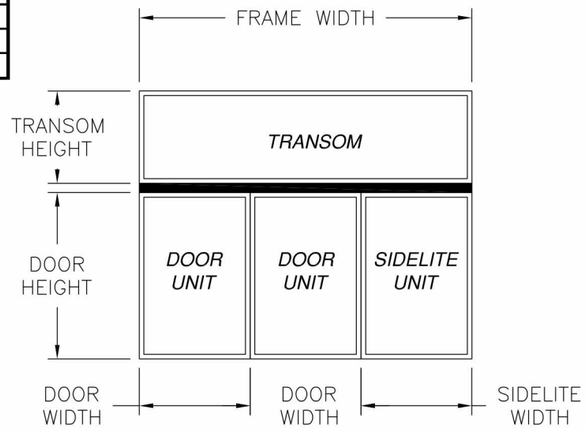
Ratings for double door with 30 in wide sidelite and 30 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		78.00	84.00	90.00	96.00	102.00	108.00	114.00	120.00	126.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	30.00	69.9	60.3	52.5	45.9	38.3	32.2	27.4	23.5	20.3
84.00	30.00	67.4	58.1	50.7	44.3	36.9	31.1	26.5	22.7	19.6
88.00	30.00	65.2	56.2	48.9	42.8	35.7	30.1	25.6	21.9	18.9
92.00	30.00	63.0	54.3	47.3	41.4	34.5	29.1	24.7	21.2	18.3
96.00	30.00	61.0	52.6	45.8	40.1	33.4	28.1	23.9	20.5	17.7

IMPACT RATED UP TO WIND ZONE 3

CHART #63

Ratings for double door with 36 in wide sidelite and 30 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		84.00	90.00	96.00	102.00	108.00	114.00	120.00	126.00	132.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	30.00	60.3	52.5	45.9	38.3	32.2	27.4	23.5	20.3	17.7
84.00	30.00	58.1	50.7	44.3	36.9	31.1	26.5	22.7	19.6	17.0
88.00	30.00	56.2	48.9	42.8	35.7	30.1	25.6	21.9	18.9	16.5
92.00	30.00	54.3	47.3	41.4	34.5	29.1	24.7	21.2	18.3	15.9
96.00	30.00	52.6	45.8	40.1	33.4	28.1	23.9	20.5	17.7	15.4

IMPACT RATED UP TO WIND ZONE 3



HORIZONTAL MULLION

DOUBLE DOOR WITH SIDELITE & TRANSOM

SEE CHARTS #59, #60, #61, #62 AND #63 FOR RATINGS

SIGNED: 07/06/2016

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

MULLION HORIZONTAL ROYAL SERIES
SINGLE AND DOUBLE DOORS WITH TRANSOM
DOUBLE DOOR WITH SIDELITE AND 30" TRANSOM

DRAWN:	DWG NO.	REV
V.L.	08-02903	-
SCALE NTS	DATE 06/06/16	SHEET 14 OF 23

LUIS R. LOMAS LICENSE No. 62514 STATE OF FLORIDA PROFESSIONAL ENGINEER

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

CHART #64

Ratings for double door with 12 in wide sidelite and 36 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		60.00	66.00	72.00	78.00	84.00	90.00	96.00	102.00	108.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	36.00	100.0	92.6	77.8	66.3	57.1	49.8	43.5	36.3	30.6
84.00	36.00	100.0	89.5	75.2	64.1	55.2	48.1	42.1	35.1	29.6
88.00	36.00	100.0	86.6	72.8	62.0	53.5	46.6	40.7	34.0	28.6
92.00	36.00	100.0	83.9	70.5	60.1	51.8	45.1	39.5	32.9	27.7
96.00	36.00	98.4	81.3	68.4	58.2	50.2	43.7	38.3	31.9	26.9

IMPACT RATED UP TO WIND ZONE 3

CHART #65

Ratings for double door with 18 in wide sidelite and 36 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		66.00	72.00	78.00	84.00	90.00	96.00	102.00	108.00	114.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	36.00	92.6	77.8	66.3	57.1	49.8	43.5	36.3	30.6	26.0
84.00	36.00	89.5	75.2	64.1	55.2	48.1	42.1	35.1	29.6	25.1
88.00	36.00	86.6	72.8	62.0	53.5	46.6	40.7	34.0	28.6	24.3
92.00	36.00	83.9	70.5	60.1	51.8	45.1	39.5	32.9	27.7	23.6
96.00	36.00	81.3	68.4	58.2	50.2	43.7	38.3	31.9	26.9	22.8

IMPACT RATED UP TO WIND ZONE 3

CHART #66

Ratings for double door with 24 in wide sidelite and 36 in high transom (psf)									
Height (in)		Span and door panel width (in)							
		72.00	78.00	84.00	90.00	96.00	102.00	108.00	114.00	120.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	36.00	77.8	66.3	57.1	49.8	43.5	36.3	30.6	26.0	22.3
84.00	36.00	75.2	64.1	55.2	48.1	42.1	35.1	29.6	25.1	21.5
88.00	36.00	72.8	62.0	53.5	46.6	40.7	34.0	28.6	24.3	20.9
92.00	36.00	70.5	60.1	51.8	45.1	39.5	32.9	27.7	23.6	20.2
96.00	36.00	68.4	58.2	50.2	43.7	38.3	31.9	26.9	22.8	19.6

IMPACT RATED UP TO WIND ZONE 3

CHART #67

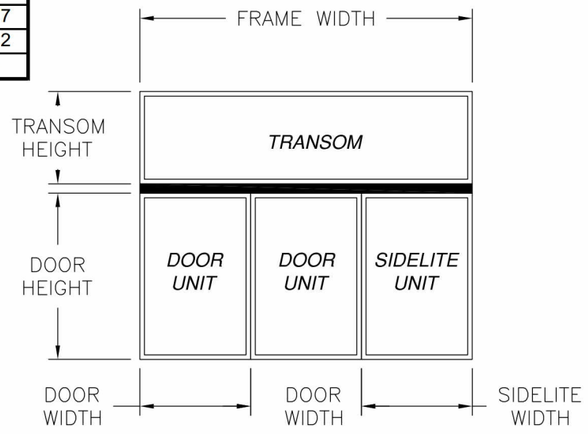
Ratings for double door with 30 in wide sidelite and 36 in high transom (psf)										
Height (in)		Frame and door panel width (in)								
		78.00	84.00	90.00	96.00	102.00	108.00	114.00	120.00	126.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	36.00	66.3	57.1	49.8	43.5	36.3	30.6	26.0	22.3	19.3
84.00	36.00	64.1	55.2	48.1	42.1	35.1	29.6	25.1	21.5	18.6
88.00	36.00	62.0	53.5	46.6	40.7	34.0	28.6	24.3	20.9	18.0
92.00	36.00	60.1	51.8	45.1	39.5	32.9	27.7	23.6	20.2	17.4
96.00	36.00	58.2	50.2	43.7	38.3	31.9	26.9	22.8	19.6	16.9

IMPACT RATED UP TO WIND ZONE 3

CHART #68

Ratings for double door with 36 in wide sidelite and 36 in high transom (psf)										
Height (in)		Frame and door panel width (in)								
		84.00	90.00	96.00	102.00	108.00	114.00	120.00	126.00	132.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	36.00	57.1	49.8	43.5	36.3	30.6	26.0	22.3	19.3	16.7
84.00	36.00	55.2	48.1	42.1	35.1	29.6	25.1	21.5	18.6	16.2
88.00	36.00	53.5	46.6	40.7	34.0	28.6	24.3	20.9	18.0	15.7
92.00	36.00	51.8	45.1	39.5	32.9	27.7	23.6	20.2	17.4	15.2
96.00	36.00	50.2	43.7	38.3	31.9	26.9	22.8	19.6	16.9	-

IMPACT RATED UP TO WIND ZONE 3



HORIZONTAL MULLION

DOUBLE DOOR WITH SIDELITE & TRANSOM
SEE CHARTS #64, #65, #66, #67 AND #68 FOR RATINGS

SIGNED: 07/06/2016

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

MULLION HORIZONTAL ROYAL SERIES
SINGLE AND DOUBLE DOORS WITH TRANSOM
DOUBLE DOOR WITH SIDELITE AND 36" TRANSOM

DRAWN:	DWG NO.	REV
V.L.	08-02903	-
SCALE NTS	DATE 06/06/16	SHEET 15 OF 23

LUIS R. LOMAS LICENSE No. 62514 STATE OF FLORIDA PROFESSIONAL ENGINEER

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

CHART #69

Ratings for double door with 12 in wide sidelites and 18 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		72.00	78.00	84.00	90.00	96.00	102.00	108.00	114.00	120.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	18.00	92.1	78.5	67.6	58.9	51.5	43.0	36.2	30.8	26.4
84.00	18.00	88.5	75.4	65.0	56.6	49.5	41.3	34.8	29.6	25.3
88.00	18.00	85.1	72.5	62.5	54.5	47.6	39.7	33.5	28.5	24.4
92.00	18.00	82.0	69.9	60.3	52.5	45.9	38.3	32.2	27.4	23.5
96.00	18.00	79.1	67.4	58.1	50.7	44.3	36.9	31.1	26.5	22.7

IMPACT RATED UP TO WIND ZONE 3

CHART #70

Ratings for double door with 18 in wide sidelites and 18 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		84.00	90.00	96.00	102.00	108.00	114.00	120.00	126.00	132.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	18.00	67.6	58.9	51.5	43.0	36.2	30.8	26.4	22.8	19.8
84.00	18.00	65.0	56.6	49.5	41.3	34.8	29.6	25.3	21.9	19.0
88.00	18.00	62.5	54.5	47.6	39.7	33.5	28.5	24.4	21.1	18.3
92.00	18.00	60.3	52.5	45.9	38.3	32.2	27.4	23.5	20.3	17.7
96.00	18.00	58.1	50.7	44.3	36.9	31.1	26.5	22.7	19.6	17.0

IMPACT RATED UP TO WIND ZONE 3

CHART #71

Ratings for double door with 24 in wide sidelites and 18 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		96.00	102.00	108.00	114.00	120.00	126.00	132.00	138.00	144.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	18.00	51.5	43.0	36.2	30.8	26.4	22.8	19.8	17.3	15.3
84.00	18.00	49.5	41.3	34.8	29.6	25.3	21.9	19.0	16.7	-
88.00	18.00	47.6	39.7	33.5	28.5	24.4	21.1	18.3	16.0	-
92.00	18.00	45.9	38.3	32.2	27.4	23.5	20.3	17.7	15.5	-
96.00	18.00	44.3	36.9	31.1	26.5	22.7	19.6	17.0	-	-

IMPACT RATED UP TO WIND ZONE 3

CHART #72

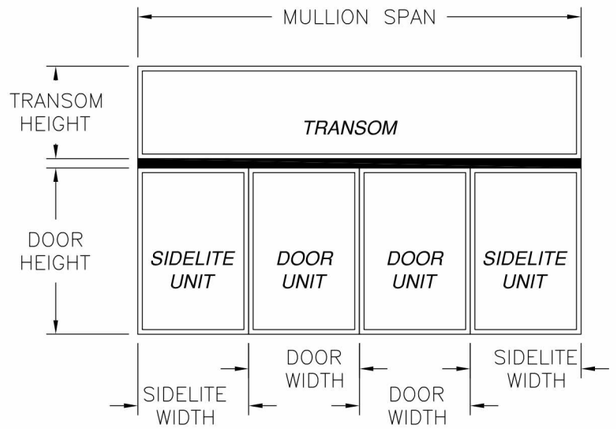
Ratings for double door with 30 in wide sidelites and 18 in high transom (psf)										
Height (in)		Frame and door panel width (in)								
		108.00	114.00	120.00	126.00	132.00	138.00	144.00	150.00	156.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	18.00	36.2	30.8	26.4	22.8	19.8	17.3	15.3	-	-
84.00	18.00	34.8	29.6	25.3	21.9	19.0	16.7	-	-	-
88.00	18.00	33.5	28.5	24.4	21.1	18.3	16.0	-	-	-
92.00	18.00	32.2	27.4	23.5	20.3	17.7	15.5	-	-	-
96.00	18.00	31.1	26.5	22.7	19.6	17.0	-	-	-	-

IMPACT RATED UP TO WIND ZONE 3

CHART #73

Ratings for double door with 36 in wide sidelites and 18 in high transom (psf)										
Height (in)		Frame and door panel width (in)								
		120.00	126.00	132.00	138.00	144.00	150.00	156.00	162.00	168.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	18.00	26.4	22.8	19.8	17.3	15.3	-	-	-	-
84.00	18.00	25.3	21.9	19.0	16.7	-	-	-	-	-
88.00	18.00	24.4	21.1	18.3	16.0	-	-	-	-	-
92.00	18.00	23.5	20.3	17.7	15.5	-	-	-	-	-
96.00	18.00	22.7	19.6	17.0	-	-	-	-	-	-

IMPACT RATED UP TO WIND ZONE 3



HORIZONTAL MULLION

DOUBLE DOOR WITH SIDELITES & TRANSOM
SEE CHARTS #69, #70, #71, #72 AND #73 FOR RATINGS

SIGNED: 07/06/2016

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

MULLION HORIZONTAL ROYAL SERIES
SINGLE AND DOUBLE DOORS WITH TRANSOM
DOUBLE DOOR WITH SIDELITES AND 18" TRANSOM

DRAWN:	DWG NO.	REV
V.L.	08-02903	-
SCALE NTS	DATE 06/06/16	SHEET 16 OF 23

LUIS R. LOMAS LICENSE No. 62514 STATE OF FLORIDA PROFESSIONAL ENGINEER

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

CHART #74

Ratings for double door with 12 in wide sidelites and 24 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		72.00	78.00	84.00	90.00	96.00	102.00	108.00	114.00	120.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	24.00	86.8	73.9	63.7	55.5	48.6	40.5	34.1	29.0	24.9
84.00	24.00	83.5	71.2	61.4	53.5	46.8	39.0	32.8	27.9	23.9
88.00	24.00	80.6	68.6	59.2	51.6	45.1	37.6	31.7	26.9	23.1
92.00	24.00	77.8	66.3	57.1	49.8	43.5	36.3	30.6	26.0	22.3
96.00	24.00	75.2	64.1	55.2	48.1	42.1	35.1	29.6	25.1	21.5

IMPACT RATED UP TO WIND ZONE 3

CHART #75

Ratings for double door with 18 in wide sidelites and 24 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		84.00	90.00	96.00	102.00	108.00	114.00	120.00	126.00	132.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	24.00	63.7	55.5	48.6	40.5	34.1	29.0	24.9	21.5	18.7
84.00	24.00	61.4	53.5	46.8	39.0	32.8	27.9	23.9	20.7	18.0
88.00	24.00	59.2	51.6	45.1	37.6	31.7	26.9	23.1	19.9	17.3
92.00	24.00	57.1	49.8	43.5	36.3	30.6	26.0	22.3	19.3	16.7
96.00	24.00	55.2	48.1	42.1	35.1	29.6	25.1	21.5	18.6	16.2

IMPACT RATED UP TO WIND ZONE 3

CHART #76

Ratings for double door with 24 in wide sidelites and 24 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		96.00	102.00	108.00	114.00	120.00	126.00	132.00	138.00	144.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	24.00	48.6	40.5	34.1	29.0	24.9	21.5	18.7	16.3	-
84.00	24.00	46.8	39.0	32.8	27.9	23.9	20.7	18.0	15.7	-
88.00	24.00	45.1	37.6	31.7	26.9	23.1	19.9	17.3	15.2	-
92.00	24.00	43.5	36.3	30.6	26.0	22.3	19.3	16.7	-	-
96.00	24.00	42.1	35.1	29.6	25.1	21.5	18.6	16.2	-	-

IMPACT RATED UP TO WIND ZONE 3

CHART #77

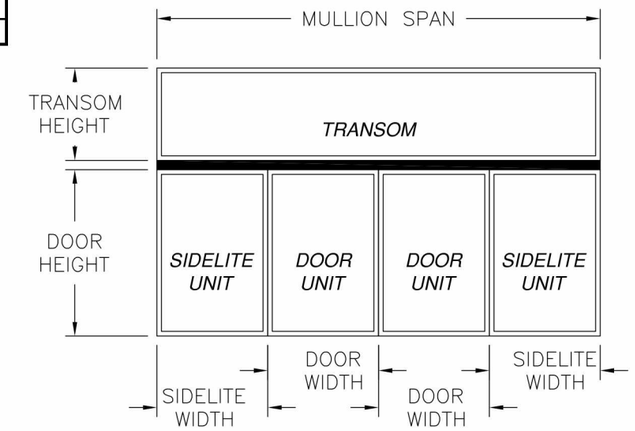
Ratings for double door with 30 in wide sidelites and 24 in high transom (psf)										
Height (in)		Frame and door panel width (in)								
		108.00	114.00	120.00	126.00	132.00	138.00	144.00	150.00	156.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	24.00	34.1	29.0	24.9	21.5	18.7	16.3	-	-	-
84.00	24.00	32.8	27.9	23.9	20.7	18.0	15.7	-	-	-
88.00	24.00	31.7	26.9	23.1	19.9	17.3	15.2	-	-	-
92.00	24.00	30.6	26.0	22.3	19.3	16.7	-	-	-	-
96.00	24.00	29.6	25.1	21.5	18.6	16.2	-	-	-	-

IMPACT RATED UP TO WIND ZONE 3

CHART #78

Ratings for double door with 36 in wide sidelites and 24 in high transom (psf)										
Height (in)		Frame and door panel width (in)								
		120.00	126.00	132.00	138.00	144.00	150.00	156.00	162.00	168.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	24.00	24.9	21.5	18.7	16.3	-	-	-	-	-
84.00	24.00	23.9	20.7	18.0	15.7	-	-	-	-	-
88.00	24.00	23.1	19.9	17.3	15.2	-	-	-	-	-
92.00	24.00	22.3	19.3	16.7	-	-	-	-	-	-
96.00	24.00	21.5	18.6	16.2	-	-	-	-	-	-

IMPACT RATED UP TO WIND ZONE 3



HORIZONTAL MULLION

DOUBLE DOOR WITH SIDELITE & TRANSOM

SEE CHARTS #74, #75, #76, #77 AND #78 FOR RATINGS

SIGNED: 07/06/2016

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

MULLION HORIZONTAL ROYAL SERIES
SINGLE AND DOUBLE DOORS WITH TRANSOM
DOUBLE DOOR WITH SIDELITES AND 24" TRANSOM

DRAWN:	DWG NO.	REV
V.L.	08-02903	–
SCALE NTS	DATE 06/06/16	SHEET 17 OF 23

LUIS R. LOMAS LICENSE No. 62514 STATE OF FLORIDA PROFESSIONAL ENGINEER

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

CHART #79

Ratings for double door with 12 in wide sidelites and 30 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		72.00	78.00	84.00	90.00	96.00	102.00	108.00	114.00	120.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	30.00	82.0	69.9	60.3	52.5	45.9	38.3	32.2	27.4	23.5
84.00	30.00	79.1	67.4	58.1	50.7	44.3	36.9	31.1	26.5	22.7
88.00	30.00	76.5	65.2	56.2	48.9	42.8	35.7	30.1	25.6	21.9
92.00	30.00	74.0	63.0	54.3	47.3	41.4	34.5	29.1	24.7	21.2
96.00	30.00	71.6	61.0	52.6	45.8	40.1	33.4	28.1	23.9	20.5

IMPACT RATED UP TO WIND ZONE 3

CHART #80

Ratings for double door with 18 in wide sidelites and 30 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		84.00	90.00	96.00	102.00	108.00	114.00	120.00	126.00	132.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	30.00	60.3	52.5	45.9	38.3	32.2	27.4	23.5	20.3	17.7
84.00	30.00	58.1	50.7	44.3	36.9	31.1	26.5	22.7	19.6	17.0
88.00	30.00	56.2	48.9	42.8	35.7	30.1	25.6	21.9	18.9	16.5
92.00	30.00	54.3	47.3	41.4	34.5	29.1	24.7	21.2	18.3	15.9
96.00	30.00	52.6	45.8	40.1	33.4	28.1	23.9	20.5	17.7	15.4

IMPACT RATED UP TO WIND ZONE 3

CHART #81

Ratings for double door with 24 in wide sidelites and 30 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		96.00	102.00	108.00	114.00	120.00	126.00	132.00	138.00	144.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	30.00	45.9	38.3	32.2	27.4	23.5	20.3	17.7	15.5	-
84.00	30.00	44.3	36.9	31.1	26.5	22.7	19.6	17.0	-	-
88.00	30.00	42.8	35.7	30.1	25.6	21.9	18.9	16.5	-	-
92.00	30.00	41.4	34.5	29.1	24.7	21.2	18.3	15.9	-	-
96.00	30.00	40.1	33.4	28.1	23.9	20.5	17.7	15.4	-	-

IMPACT RATED UP TO WIND ZONE 3

CHART #82

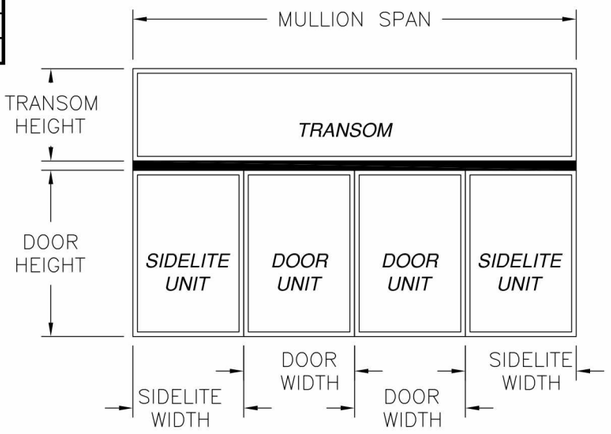
Ratings for double door with 30 in wide sidelites and 30 in high transom (psf)										
Height (in)		Frame and door panel width (in)								
		108.00	114.00	120.00	126.00	132.00	138.00	144.00	150.00	156.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	30.00	32.2	27.4	23.5	20.3	17.7	15.5	-	-	-
84.00	30.00	31.1	26.5	22.7	19.6	17.0	-	-	-	-
88.00	30.00	30.1	25.6	21.9	18.9	16.5	-	-	-	-
92.00	30.00	29.1	24.7	21.2	18.3	15.9	-	-	-	-
96.00	30.00	28.1	23.9	20.5	17.7	15.4	-	-	-	-

IMPACT RATED UP TO WIND ZONE 3

CHART #83

Ratings for double door with 36 in wide sidelites and 30 in high transom (psf)										
Height (in)		Frame and door panel width (in)								
		120.00	126.00	132.00	138.00	144.00	150.00	156.00	162.00	168.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	30.00	23.5	20.3	17.7	15.5	-	-	-	-	-
84.00	30.00	22.7	19.6	17.0	-	-	-	-	-	-
88.00	30.00	21.9	18.9	16.5	-	-	-	-	-	-
92.00	30.00	21.2	18.3	15.9	-	-	-	-	-	-
96.00	30.00	20.5	17.7	15.4	-	-	-	-	-	-

IMPACT RATED UP TO WIND ZONE 3



HORIZONTAL MULLION

DOUBLE DOOR WITH SIDELITES AND TRANSOM
SEE CHARTS #79, #80, #81, #82 AND #83 FOR RATINGS

SIGNED: 07/06/2016

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

MULLION HORIZONTAL ROYAL SERIES
SINGLE AND DOUBLE DOORS WITH TRANSOM
DOUBLE DOOR WITH SIDELITES AND 30" TRANSOM

DRAWN:	DWG NO.	REV
V.L.	08-02903	-
SCALE NTS	DATE 06/06/16	SHEET 18 OF 23

LUIS R. LOMAS LICENSE No. 62514 STATE OF FLORIDA PROFESSIONAL ENGINEER

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

CHART #84

Ratings for double door with 12 in wide sidelites and 36 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		72.00	78.00	84.00	90.00	96.00	102.00	108.00	114.00	120.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	36.00	77.8	66.3	57.1	49.8	43.5	36.3	30.6	26.0	22.3
84.00	36.00	75.2	64.1	55.2	48.1	42.1	35.1	29.6	25.1	21.5
88.00	36.00	72.8	62.0	53.5	46.6	40.7	34.0	28.6	24.3	20.9
92.00	36.00	70.5	60.1	51.8	45.1	39.5	32.9	27.7	23.6	20.2
96.00	36.00	68.4	58.2	50.2	43.7	38.3	31.9	26.9	22.8	19.6

IMPACT RATED UP TO WIND ZONE 3

CHART #85

Ratings for double door with 18 in wide sidelites and 36 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		84.00	90.00	96.00	102.00	108.00	114.00	120.00	126.00	132.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	36.00	57.1	49.8	43.5	36.3	30.6	26.0	22.3	19.3	16.7
84.00	36.00	55.2	48.1	42.1	35.1	29.6	25.1	21.5	18.6	16.2
88.00	36.00	53.5	46.6	40.7	34.0	28.6	24.3	20.9	18.0	15.7
92.00	36.00	51.8	45.1	39.5	32.9	27.7	23.6	20.2	17.4	15.2
96.00	36.00	50.2	43.7	38.3	31.9	26.9	22.8	19.6	16.9	-

IMPACT RATED UP TO WIND ZONE 3

CHART #86

Ratings for double door with 24 in wide sidelites and 36 in high transom (psf)									
Height (in)		Frame and door panel width (in)							
		96.00	102.00	108.00	114.00	120.00	126.00	132.00	138.00	144.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	36.00	43.5	36.3	30.6	26.0	22.3	19.3	16.7	-	-
84.00	36.00	42.1	35.1	29.6	25.1	21.5	18.6	16.2	-	-
88.00	36.00	40.7	34.0	28.6	24.3	20.9	18.0	15.7	-	-
92.00	36.00	39.5	32.9	27.7	23.6	20.2	17.4	15.2	-	-
96.00	36.00	38.3	31.9	26.9	22.8	19.6	16.9	-	-	-

IMPACT RATED UP TO WIND ZONE 3

CHART #87

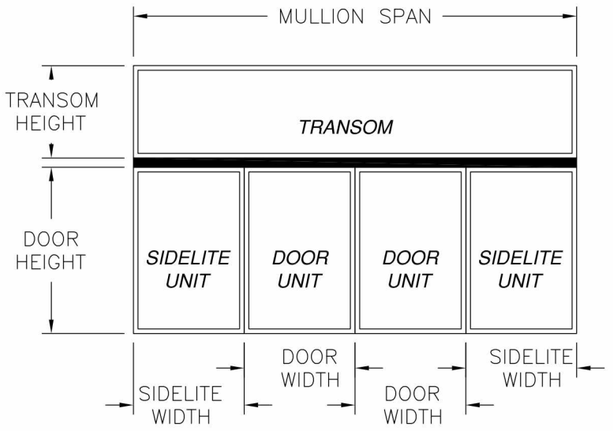
Ratings for double door with 30 in wide sidelites and 36 in high transom (psf)										
Height (in)		Frame and door panel width (in)								
		108.00	114.00	120.00	126.00	132.00	138.00	144.00	150.00	156.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	36.00	30.6	26.0	22.3	19.3	16.7	-	-	-	-
84.00	36.00	29.6	25.1	21.5	18.6	16.2	-	-	-	-
88.00	36.00	28.6	24.3	20.9	18.0	15.7	-	-	-	-
92.00	36.00	27.7	23.6	20.2	17.4	15.2	-	-	-	-
96.00	36.00	26.9	22.8	19.6	16.9	-	-	-	-	-

IMPACT RATED UP TO WIND ZONE 3

CHART #88

Ratings for double door with 36 in wide sidelites and 36 in high transom (psf)										
Height (in)		Frame and door panel width (in)								
		120.00	126.00	132.00	138.00	144.00	150.00	156.00	162.00	168.00
Door	Transom	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00
80.00	36.00	22.3	19.3	16.7	-	-	-	-	-	-
84.00	36.00	21.5	18.6	16.2	-	-	-	-	-	-
88.00	36.00	20.9	18.0	15.7	-	-	-	-	-	-
92.00	36.00	20.2	17.4	15.2	-	-	-	-	-	-
96.00	36.00	19.6	16.9	-	-	-	-	-	-	-

IMPACT RATED UP TO WIND ZONE 3



HORIZONTAL MULLION

DOUBLE DOOR WITH SIDELITES AND TRANSOM
SEE CHARTS #84, #85, #86, AND #88 FOR RATINGS

SIGNED: 07/06/2016

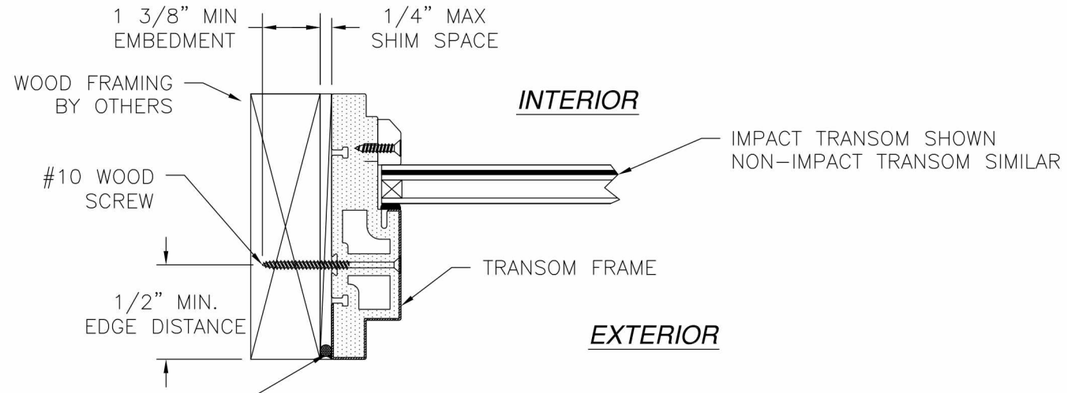
NAN YA PLASTICS CORP. USA
8989 NORTH LOOP EAST
HOUSTON, TX 77029

MULLION HORIZONTAL ROYAL SERIES
SINGLE AND DOUBLE DOORS WITH TRANSOM
DOUBLE DOOR WITH SIDELITES AND 36" TRANSOM

DRAWN:	DWG NO.	REV
V.L.	08-02903	-
SCALE NTS	DATE 06/06/16	SHEET 19 OF 23

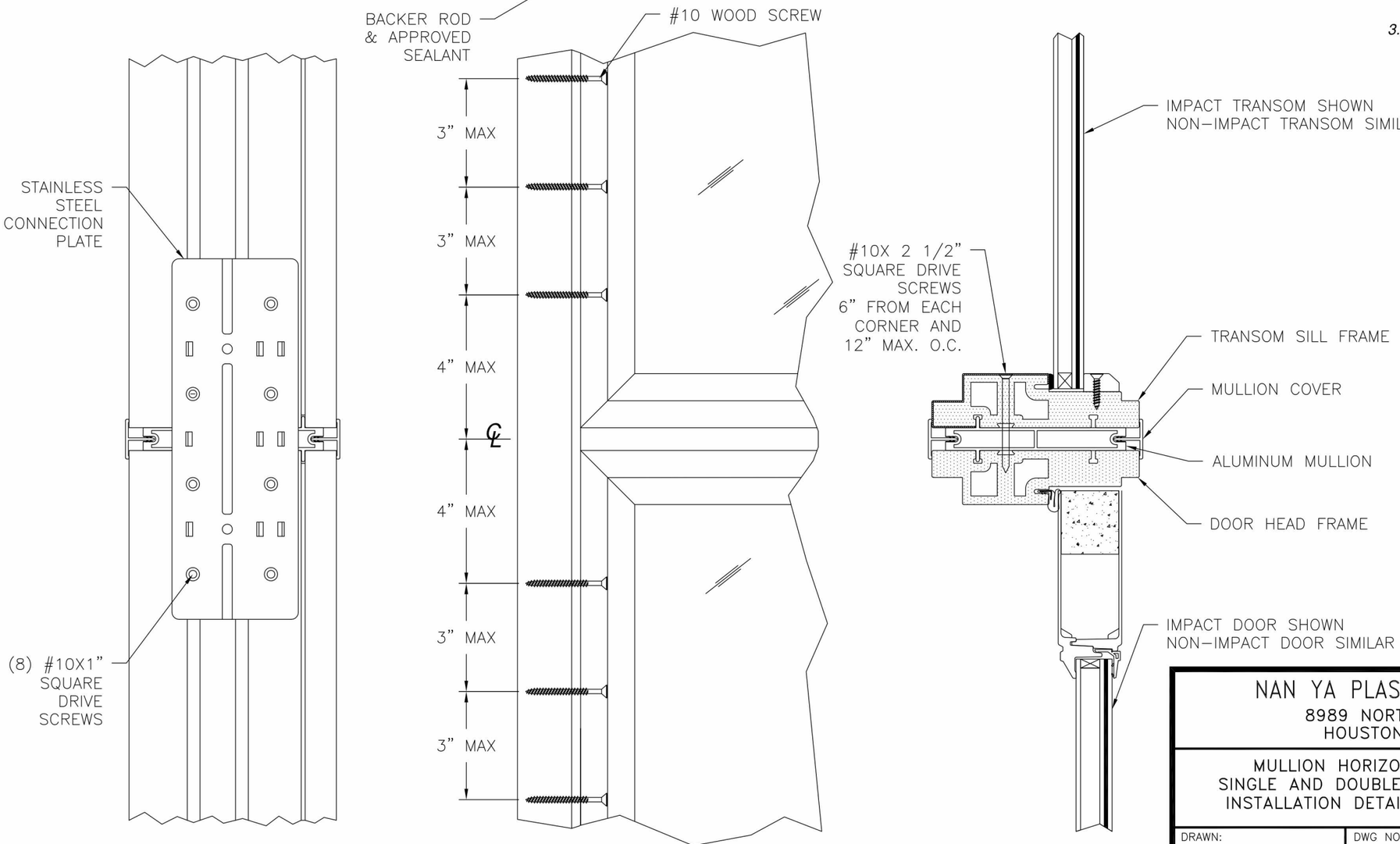
LUIS R. LOMAS LICENSE No. 62514 STATE OF FLORIDA PROFESSIONAL ENGINEER

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



NOTES:

1. *INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.*
2. *PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112*
3. *IN-SWING UNITS ARE SHOWN, OUT-SWING UNITS ARE ALSO QUALIFIED.*



MULLION INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK SUBSTRATE

SIGNED: 07/06/2016

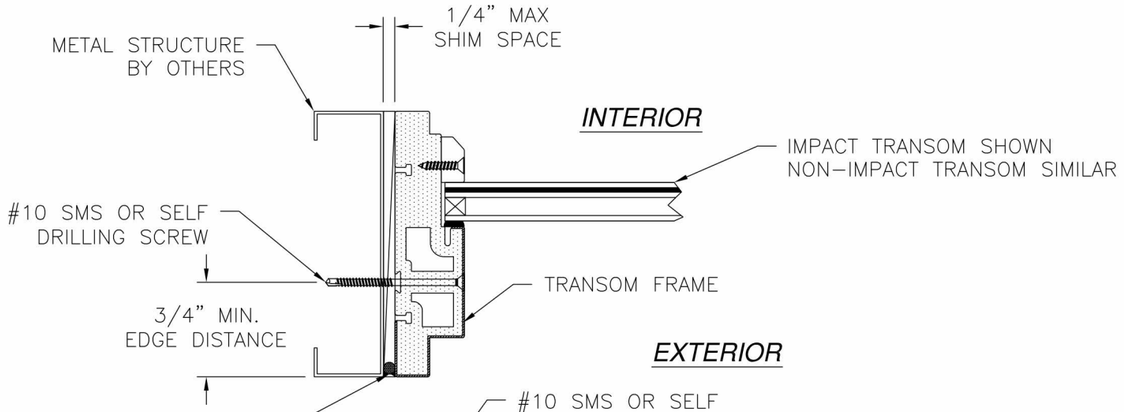
NAN YA PLASTICS CORP. USA
8989 NORTH LOOP EAST
HOUSTON, TX 77029

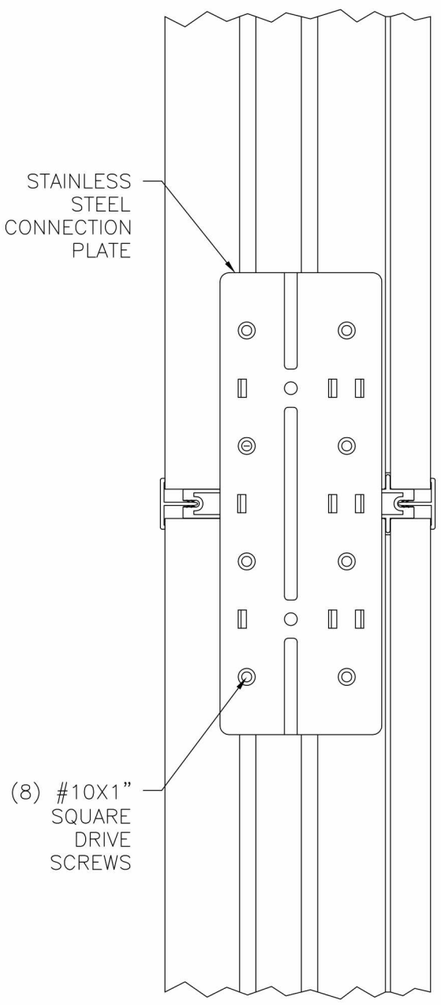
MULLION HORIZONTAL ROYAL SERIES
SINGLE AND DOUBLE DOORS WITH TRANSOM
INSTALLATION DETAILS WITH ROYAL FRAME

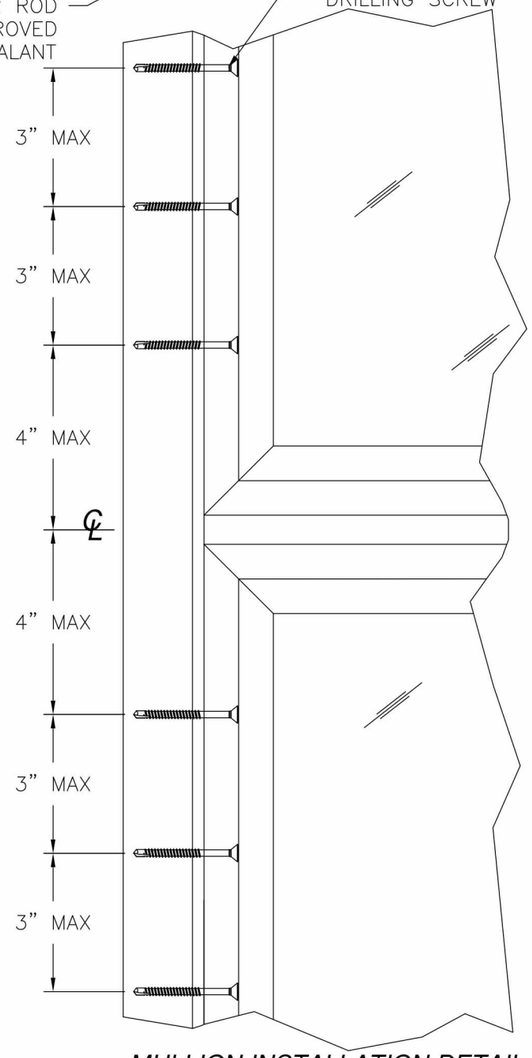
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V.L.	08–02903	–
SCALE NTS	DATE 06/06/16	SHEET 20 OF 23

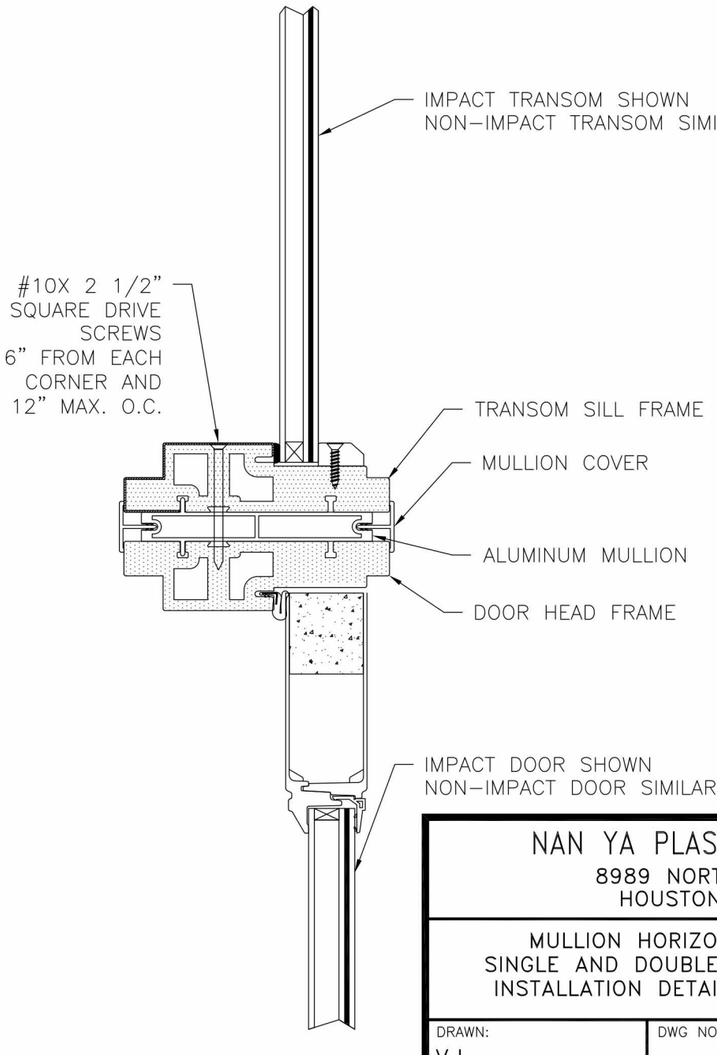
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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED









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MULLION INSTALLATION DETAIL

METAL STRUCTURE INSTALLATION

SIGNED: 07/06/2016

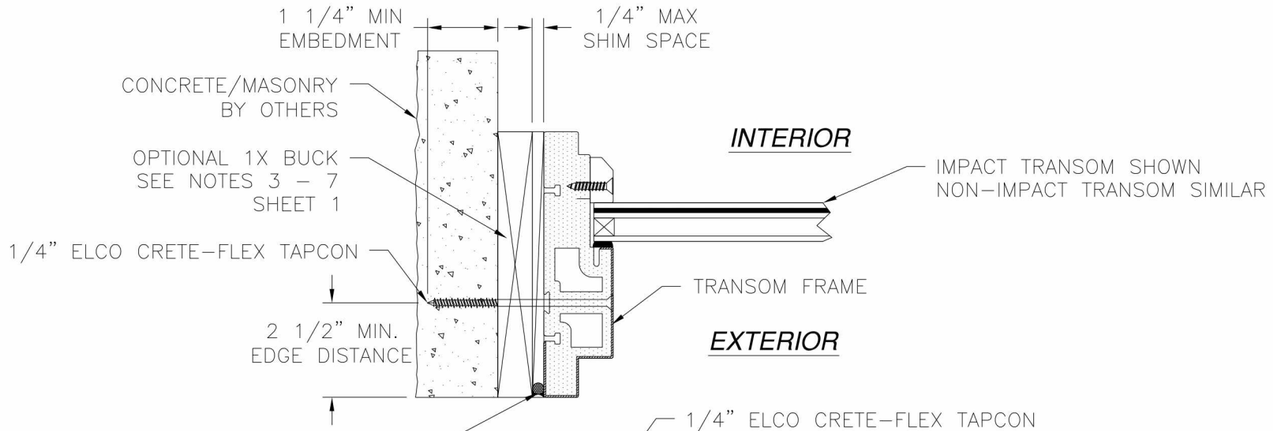
NAN YA PLASTICS CORP. USA
8989 NORTH LOOP EAST
HOUSTON, TX 77029

MULLION HORIZONTAL ROYAL SERIES
SINGLE AND DOUBLE DOORS WITH TRANSOM
INSTALLATION DETAILS WITH ROYAL FRAME

DRAWN:	DWG NO.	REV
V.L.	08–02903	–
SCALE NTS	DATE 06/06/16	SHEET 21 OF 23

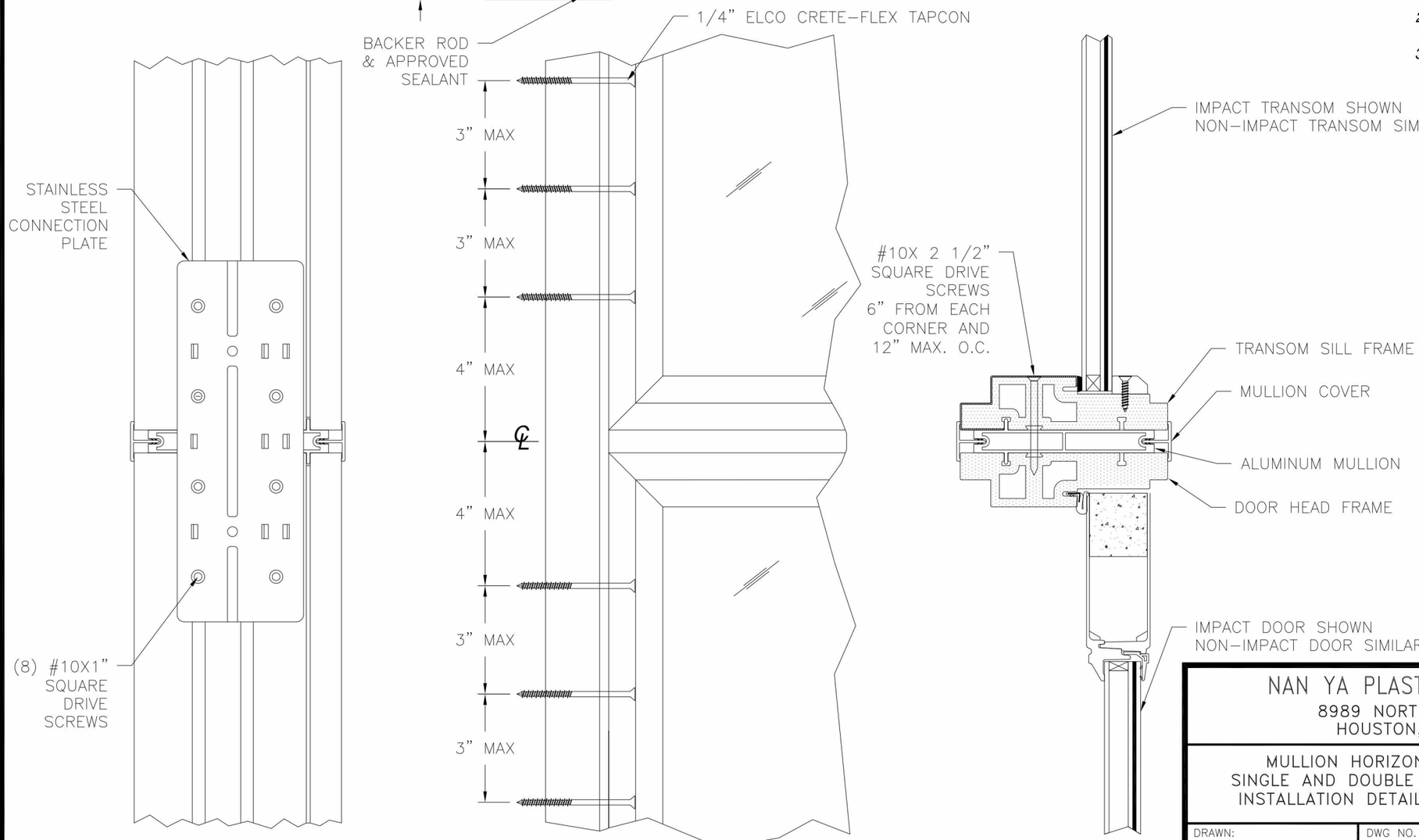
LUIS R. LOMAS
LICENSE
No. 62514
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



NOTES:

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MULLION INSTALLATION DETAIL

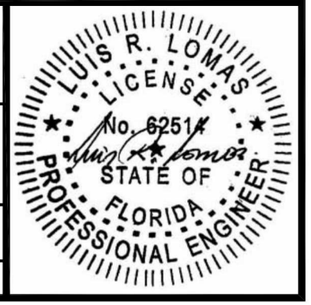
CONCRETE/MASONRY INSTALLATION

SIGNED: 07/06/2016

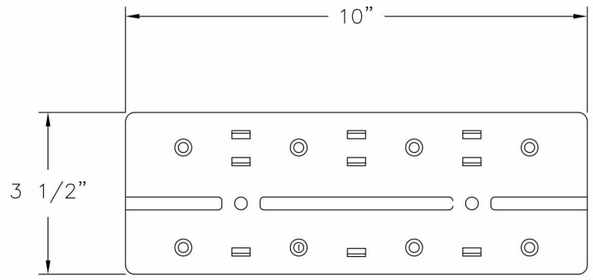
NAN YA PLASTICS CORP. USA
8989 NORTH LOOP EAST
HOUSTON, TX 77029

MULLION HORIZONTAL ROYAL SERIES
SINGLE AND DOUBLE DOORS WITH TRANSOM
INSTALLATION DETAILS WITH ROYAL FRAME

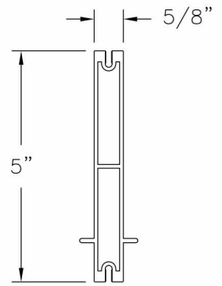
DRAWN:	DWG NO.	REV
V.L.	08–02903	–
SCALE NTS	DATE 06/06/16	SHEET 22 OF 23



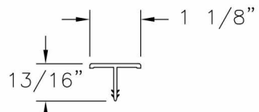
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



CONNECTION PLATE
STAINLESS STEEL .060" THICK



MULLION
ALUMINUM 6063-T5 .079" THICK



MULLION COVER
PVC .079" THICK

SIGNED: 07/06/2016

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

MULLION HORIZONTAL ROYAL SERIES
SINGLE AND DOUBLE DOORS WITH TRANSOM
COMPONENTS

DRAWN:	DWG NO.	REV
V.L.	08–02903	–
SCALE NTS	DATE 06/06/16	SHEET 23 OF 23

LUIS R. LOMAS
LICENSE
No. 62514
STATE OF
FLORIDA
PROFESSIONAL ENGINEER