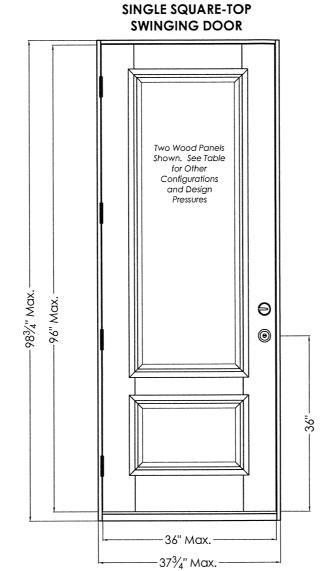
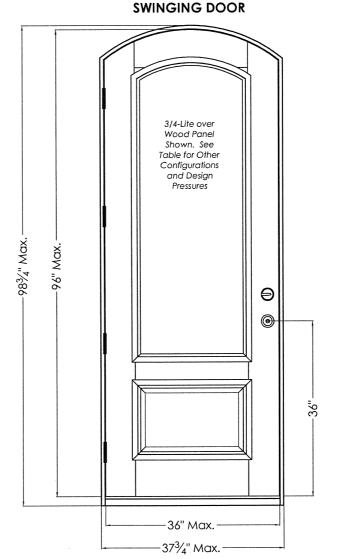
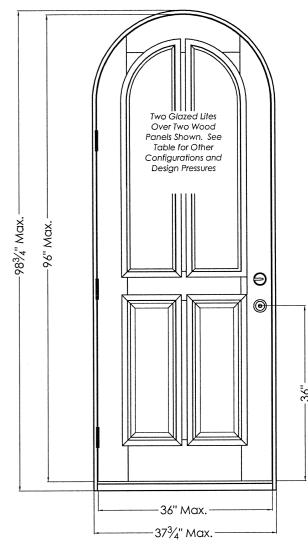
DOUBLE SQUARE-TOP SWINGING DOORS 3/4-Lite over 3/4-True-Divided Wood Panel Lite Panel over Wood Panel Shown. See Table for Other Shown, See Configurations Table for Other and Design Configurations and Design ⊖ **(9)** -36" Max.





SINGLE ARCH-TOP



SINGLE RADIUS-TOP

SWINGING DOOR

SPECIFICATIONS

Stile-and Rail Wood Doors, Inswing and Outswing by MAi Doors by Distinctive Doors, Inc.

Frame and Door Materials: Solid Wood Core with Mahogany or Cherry

Overall Maximum Dimensions: Single Door (Square, Eyebrow, or Half-Round Top) - 37.75" x 98.75"; Double Door (Square-Top) - 74.50" x 98.75"; Single Door (Square-Top) with Sidelites and/or Transom - 69.00" x 98.75"; Single Door (Radius-Top) with Surround System 69.00" x 114.25".

Exterior Frame: 45%" x 11/4" Rabetted and Kerfed with Vinyl-Wrapped Foam Weatherstripping

Raised Panels: Solid Wood Core with Mahogany or Cherry Laminate. Min. $\frac{3}{4}$ " Thickness at Taper. Max Panel Size 23 ½" x 61".

Glazing: 5/8" Thick Tempered Clear or Decorative Insulating Glass Max DLO 22

3/8" x 60", with Optional Decorative False Muntins. Installation Anchors and Hardware: See Sheet 4.

 $-37\frac{3}{4}$ " Max.

CATEGORY 5
Engineering Services, Inc.

1600 S. Federal Highway. #207 Pompano Beach, FL 33062 (954) 784-6991

GENERAL NOTES

Code Compliance: This product, as described herein, demonstrates compliance with the 2004 and 2007 Florida Building Codes.

Water Infiltration: This product has not been tested for water infiltration.

Impact Resistance: This product has not been tested for impact resistance.

HVHZ: This product has not been approved for use within the High Velocity Hurricane Zone (HVHZ).

DESIGN NOTES

Wood Bucks: Wood Bucks Shall be Designed to Transfer the Loads Imposed Upon Them to the Supporting Structure.

Design Pressures: Allowable Design Pressures for a Particular Size and Configuration of Door Shall be Determined from Tables 1, 2, and 3 on Sheet 7.

July 10th, 2008

LIMITATIONS OF USE

- This Product Evaluation Document (PED) Prepared by This Engineer is Generic and Does Not Provide Information for a Site-Specific Project; i.e. Where Site Conditions Deviate from the PED.
- Contractor to be Responsible for the Selection, Purchase and Installation of this Product Based on this PED Provided He/She does not Deviate From the Conditions Detailed on this PED.
- This PED will be Considered Invalid if Altered.
- Site-Specific Projects Shall be Prepared by a Florida Registered Professional Engineer or Architect, Who Will Become the Engineer of Record (EOR) for the Project, and Who Will be Responsible for the Proper Use of the PED.

job title

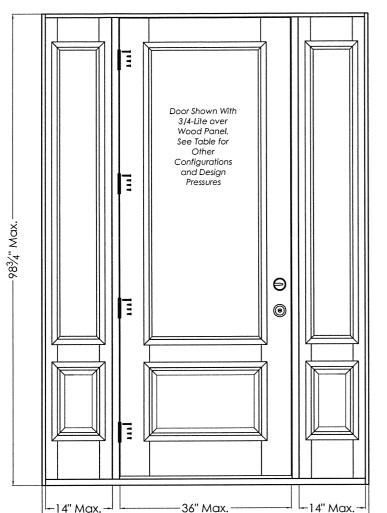
STILE AND RAIL WOOD DOORS MAI DOORS by DISTINCTIVE DOORS, Inc. 933 Hensley Lane, Wylie, TX 75098 drawn by rev no. MAi-080520A

Emma T. Mellinger, P.E. FL PE #50049 CA #25854 **Revisions**

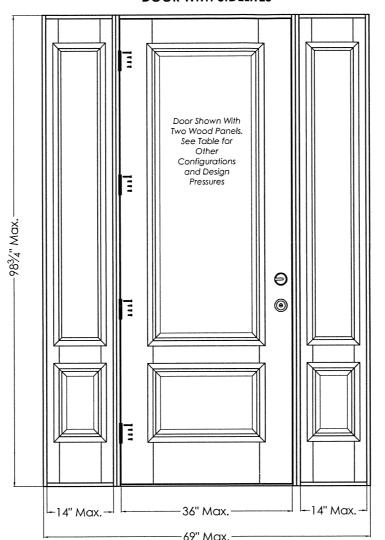
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ELEVATIONS and SPECIFICATIONS SINGLE and DOUBLE DOORS

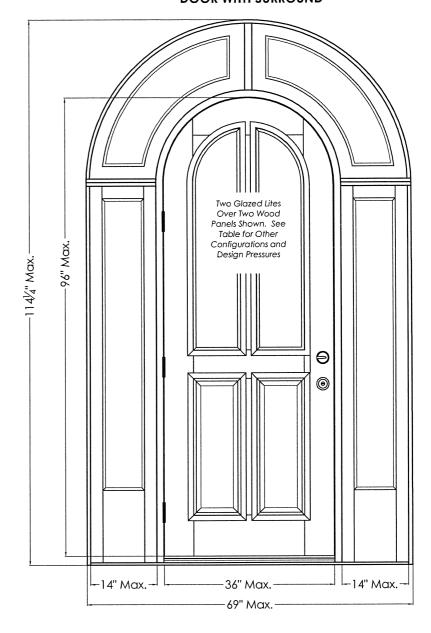
SINGLE SQUARE-TOP IN-SWINGING **DOOR WITH SIDELITES**



SINGLE SQUARE-TOP OUT-SWINGING **DOOR WITH SIDELITES**



SINGLE RADIUS-TOP IN-SWINGING DOOR WITH SURROUND



SPECIFICATIONS

Stile-and Rail Wood Doors, Inswing and Outswing with Sidelites or Surrounds by MAi Doors by Distinctive Doors, Inc.

Frame and Door Materials: Solid Wood Core with Mahogany or Cherry Laminate. Overall Maximum Dimensions: Single Door (Square-Top) with Sidelites - 69" x 98.75"; Single Door (Radius-Top) with Surround System 69" x 114.25".

-69" Max.

Exterior Frame: $4\frac{5}{8}$ " x $1\frac{1}{4}$ " Rabetted and Kerfed with Vinyl-Wrapped Foam Weatherstripping.

Raised Panels: Solid Wood Core with Mahogany or Cherry Laminate. Min. 3/4" Thickness at Taper. Max Panel Size 23 1/2" x 61".

Glazing: 5%" Thick Tempered Clear or Decorative Insulating Glass Max DLO 22 3%" x 60" with Optional Decorative False Muntins.

Outswing Assemblies: Each Component Has its Own Frame Box. Frame Boxes are Fastened Back-to-Back at the Factory.

Inswing Assemblies: A One-Piece Frame is Constructed in the Factory. Sidelites and Door Share a Common Intermediate Jamb Member, Rabbetted on Both Sides.

Installation Anchors and Hardware: See Sheet 5.

GENERAL NOTES

Code Compliance: This product, as described herein, demonstrates compliance with the 2004 and 2007 Florida Building Codes.

Water Infiltration: This product has not been tested for water infiltration.

Impact Resistance: This product has not been tested for impact resistance.

HVHZ: This product has not been approved for use within the High Velocity Hurricane Zone (HVHZ).

DESIGN NOTES

July 10th, 2008

Wood Bucks: Wood Bucks Shall be Designed to Transfer the Loads Imposed Upon Them to the Supporting Structure.

Design Pressures: Allowable Design Pressures for a Particular Size and Configuration of Door Shall be Determined from Tables 4 and 5 on Sheet 8.

CATEGORY 5 Engineering Services, Inc.

1600 S. Federal Highway. #207 Pompano Beach, FL 33062 (954) 784-6991

STILE AND RAIL WOOD DOORS MAI DOORS by DISTINCTIVE DOORS, Inc. 933 Henslev Lane, Wylie, TX 75098

drawn by rev no.

Emma T. Mellinger, P.E. FL PE #50049 CA #25854 **Revisions**

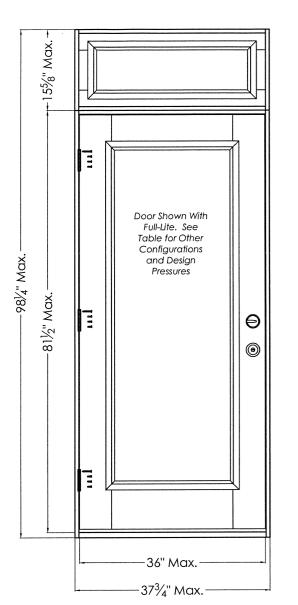
ELEVATIONS and SPECIFICATIONS DOORS WITH SIDELITES and SURROUNDS

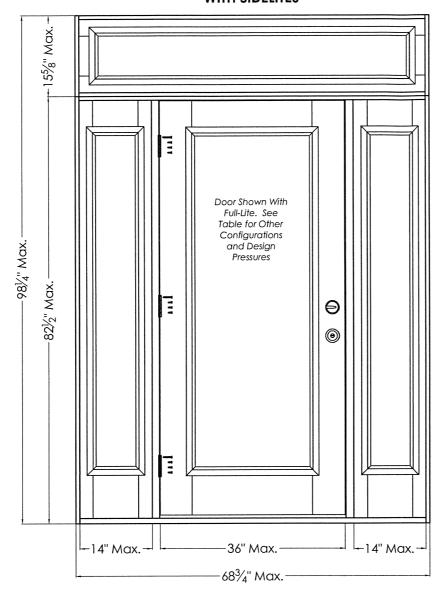
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MAi-080520A

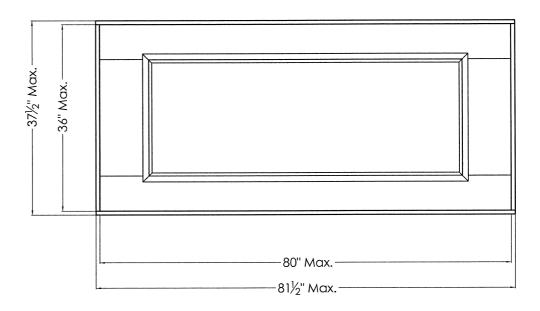
INTEGRAL TRANSOM UNIT

INTEGRAL TRANSOM UNIT WITH SIDELITES





INDEPENDENT TRANSOM UNIT



July 10th, 2008

SPECIFICATIONS

Stile-and Rail Wood Doors, Inswing and Outswing with Sidelites/Transoms, and Stile and Rail Construction Independent Transoms by MAi Doors by Distinctive Doors, Inc. Frame and Transom Materials: Solid Wood Core with Mahogany or Cherry Laminate. Overall Maximum Dimensions: Single Door with Integral Transom - 37.75" x 98.25" (Transom Shall be No Larger Than 37.75" Wide x 15.625" Tall); Single Door with Sidelites and Transom - 69.00" x 98.25" (Transom Shall be No Larger Than 69.00" Wide x 15.625" Tall); Independent Transom - 81.50" x 37.50".

Transom Frame: $4\frac{5}{8}$ " x $1\frac{1}{4}$ " with $\frac{1}{2}$ " Rabbett.

Transom Glazing: $\frac{5}{8}$ " Thick Tempered Clear or Decorative Insulating Glass. Integral Transom - Max DLO $\frac{5}{8}$ " Thick Tempered Clear or Decorative Insulating Glass. Integral Transom - Max DLO $\frac{5}{8}$ " Thick Tempered Clear or Decorative Insulating Glass. Integral Transom - Max DLO $\frac{5}{8}$ " Thick Tempered Clear or Decorative Insulating Glass. Integral

Optional Decorative False Muntins.

Installation Anchors and Hardware: See Sheet 6.

GENERAL NOTES

Code Compliance: This product, as described herein, demonstrates compliance with the 2004 and 2007 Florida Building Codes.

Water Infiltration: This product has not been tested for water infiltration.

Impact Resistance: This product has not been tested for impact resistance.

HVHZ: This product has not been approved for use within the High Velocity Hurricane Zone (HVHZ).

DESIGN NOTES

Wood Bucks: Wood Bucks Shall be Designed to Transfer the Loads Imposed Upon Them to the Supporting Structure.

Design Pressures: Allowable Design Pressures for a Particular Size and Configuration of Door Shall be Determined from Tables 6 and 7 on Sheet 8.

CATEGORY 5
Engineering Services, Inc.

1600 S. Federal Highway. #207 Pompano Beach, FL 33062

job title STILE AND RAIL WOOD DOORS

MAI DOORS by DISTINCTIVE DOORS, Inc. 933 Hensley Lane, Wylie, TX 75098

drawn by rev no. MAi-080520A

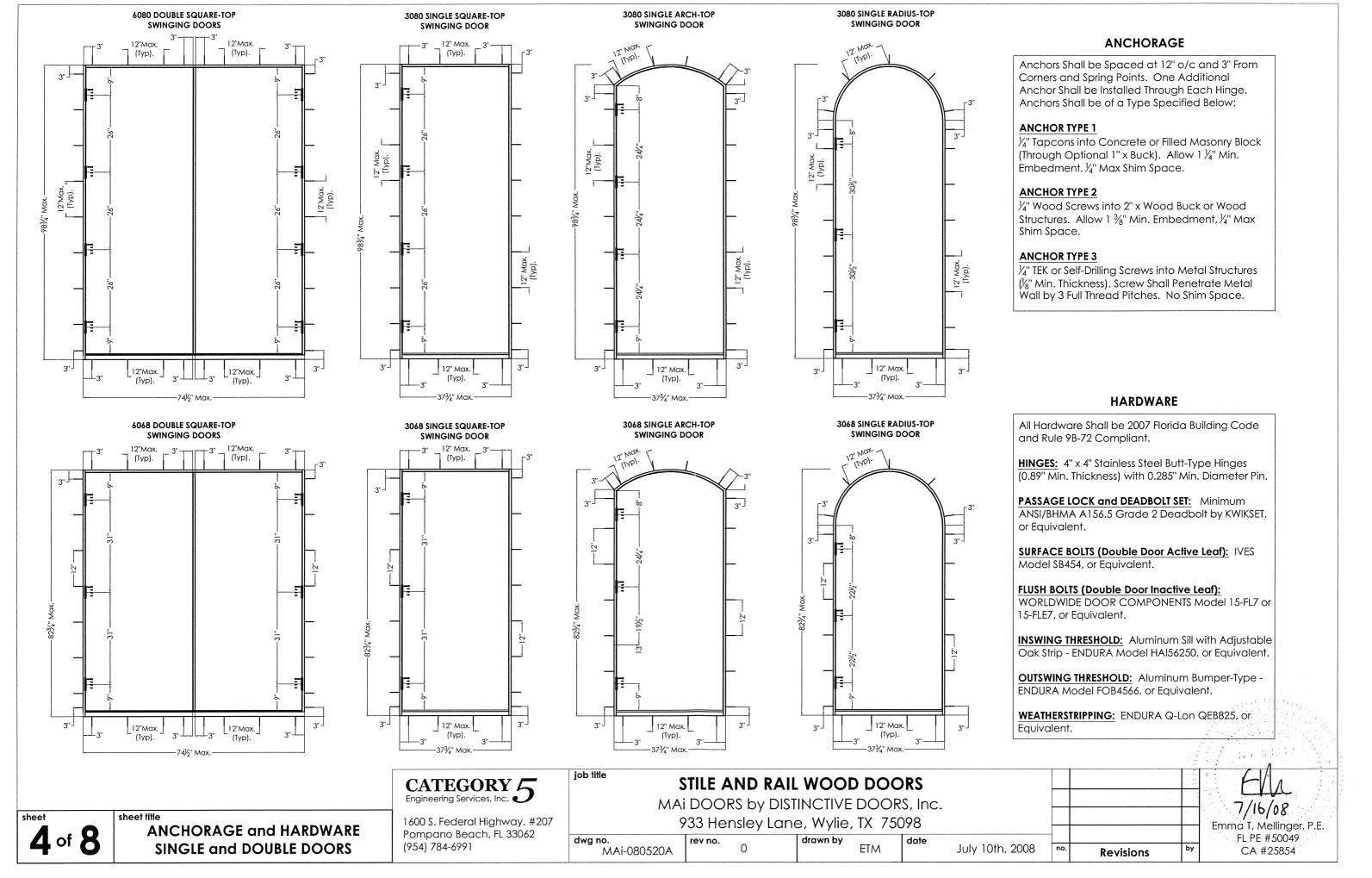
Revisions

Emma T. Mellinger, P.E. FL PE #50049 CA #25854

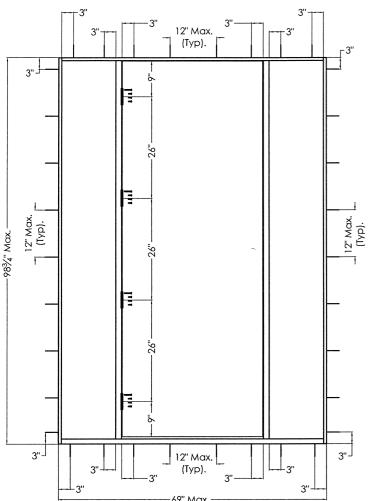
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ELEVATIONS and SPECIFICATIONS TRANSOM SYSTEMS

(954) 784-6991



SINGLE SQUARE-TOP IN-SWINGING DOOR WITH SIDELITES



HARDWARE

All Hardware Shall be 2007 Florida Building Code and Rule 9B-72 Compliant.

HINGES: 4" x 4" Stainless Steel Butt-Type Hinges (0.89" Min. Thickness) with 0.285" Min. Diameter Pin.

PASSAGE LOCK and DEADBOLT SET: Minimum ANSI/BHMA A156.5 Grade 2 Deadbolt by KWIKSET, or Equivalent.

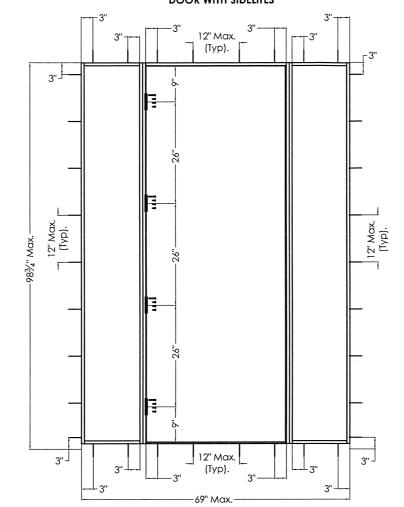
INSWING THRESHOLD: Aluminum Sill with Adjustable Oak Strip - ENDURA Model HAI56250, or Equivalent.

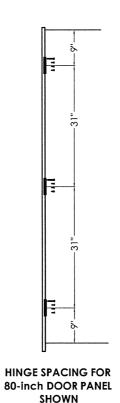
OUTSWING THRESHOLD: Aluminum Bumper-Type -ENDURA Model FOB4566, or Equivalent.

WEATHERSTRIPPING: ENDURA Q-Lon QEB825, or Equivalent.

DOORS with SIDELITES and SURROUNDS

SINGLE SQUARE-TOP OUT-SWINGING **DOOR WITH SIDELITES**





ANCHORAGE

Anchors Shall be Spaced at 12" o/c and 3" From Corners and Spring Points. Anchors Shall be of a Type Specified Below

ANCHOR TYPE 1

1/4" Tapcons into Concrete or Filled Masonry Block (Through Optional 1" x Buck). Allow 1 1/4" Min. Embedment, $\frac{1}{4}$ " Max Shim Space.

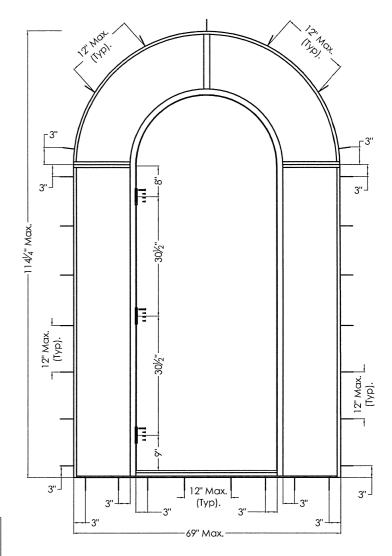
ANCHOR TYPE 2

1/4" Wood Screws into 2" x Wood Buck or Wood Structures. Allow 1 $\frac{3}{8}$ " Min. Embedment, $\frac{1}{4}$ " Max Shim Space.

ANCHOR TYPE 3

1/4" TEK or Self-Drilling Screws into Metal Structures 1/8" Min. Thick. Screw Shall Penetrate Metal Wall by 3 Full Thread Pitches. No Shim Space.

SINGLE RADIUS-TOP IN-SWINGING DOOR WITH SURROUND



FL PE #50049

CA #25854

CATEGORY 5 Engineering Services, Inc.

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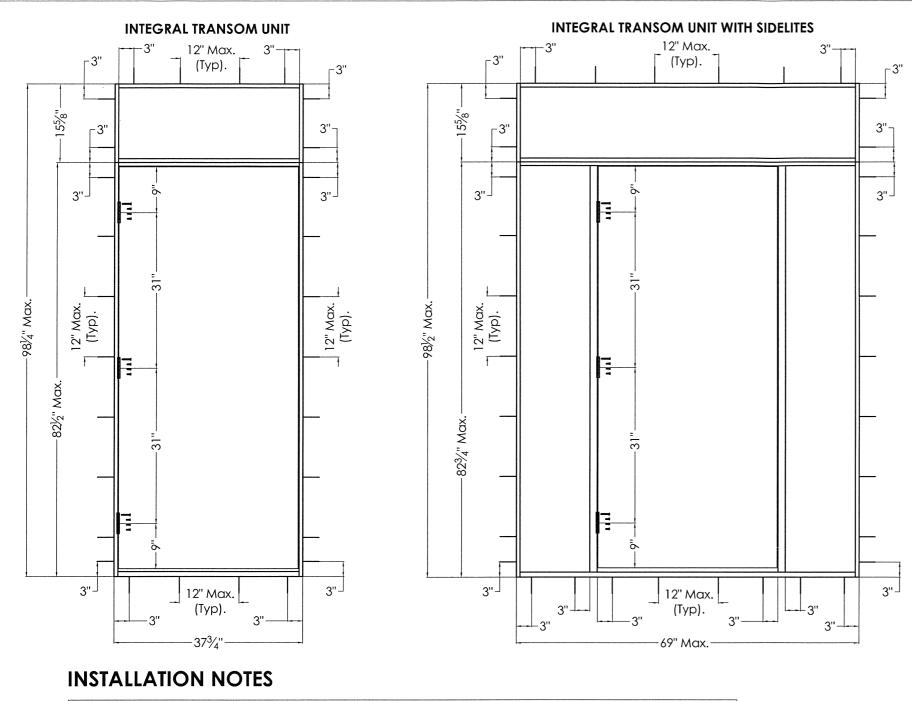
job title

rev no.

STILE AND RAIL WOOD DOORS MAI DOORS by DISTINCTIVE DOORS, Inc. 933 Hensley Lane, Wylie, TX 75098 MAi-080520A July 10th, 2008 **Revisions**

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ANCHORAGE and HARDWARE



Integral Transoms: The Transom Has its Own Frame Box. The Transom Frame Box is Fastened Back-to-Back with the Door/Sidelite Assembly in the Factory.

Independent Transoms: Independent Transoms Shall be Separated From the Door/Sidelite Assembly with a Structural Mullion or Other Beam Capable of Transferring The Loads Imposed Upon it to the Supporting Structure. This Mullion is Not Part of This Product Approval, and Shall be Designed by Others to Meet the Requirements of the Florida Building Code.

12" Max. (Typ). 37½" Max. 12" Max. (Typ). 12" Max. 3"-(Typ).

INDEPENDENT TRANSOM UNIT

ANCHORAGE

Anchors Shall be Spaced at 12" o/c and 3" From Corners and Spring Points. One Additional Anchor Shall be Installed Through Each Hinge. Anchors Shall be of a Type Specified Below:

ANCHOR TYPE 1

1/4" Tapcons into Concrete or Filled Masonry Block (Through Optional 1" x Buck). Allow $1\frac{1}{4}$ " Min. Embedment, $\frac{1}{4}$ " Max Shim Space.

ANCHOR TYPE 2

1/4" Wood Screws into 2" x Wood Buck or Wood Structures. Allow 1 $\frac{3}{8}$ " Min. Embedment, $\frac{1}{4}$ " Max Shim Space.

ANCHOR TYPE 3

 $\frac{1}{4}$ " TEK or Self-Drilling Screws into Metal Structures $\frac{1}{8}$ " Min. Thickness. Screw Shall Penetrate Metal Wall by 3 Full Thread Pitches. No Shim Space.

CATEGORY 5
Engineering Services, Inc.

1600 S. Federal Highway. #207 Pompano Beach, FL 33062 (954) 784-6991

STILE AND RAIL WOOD DOORS

MAI DOORS by DISTINCTIVE DOORS, Inc. 933 Hensley Lane, Wylie, TX 75098

rev no. drawn by ETM MAi-080520A

July 10th, 2008 **Revisions**

FL PE #50049 CA #25854

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sheet title

TRANSOM SYSTEMS

ANCHORAGE

TABLE 1.

TABLE 2.

TABLE 3.

DOUBLE DOORS - SQUARE TOP

Nominal **Design Pressures** Size Swing Configuration (psf) 35 -50 3068 Full Lite Inswing 52 Outswina Full Lite -35 Inswing Full Panel 35 -52 Full Panel 52 -35 Outswing -52 3/4-Lite over 1 Panel 35 Inswing Outswina 3/4-Lite over 1 Panel 52 -35 3/4-Lite over 2 Panels 35 -52 Inswing 3/4-Lite over 2 Panels 52 -35 Outswing 2 Lites over 2 Panels 35 -52 Inswing Outswing 2 Lites over 2 Panels 52 -35 4 Panels (2 over 2) 35 -52 Inswing 4 Panels (2 over 2) 52 -35 Outswing 3 Panels (1 over 2) 35 -52 Inswing 52 -35 Outswing 3 Panels (1 over 2) 35 -52 Inswing 2 Panels 52 Outswing 2 Panels -35 3080 35 -52 3/4-Lite over 1 Panel Inswing 3/4-Lite over 1 Panel 52 -35 Outswing 3/4-Lite over 2 Panels 35 -45 Inswina 3/4-Lite over 2 Panels 45 -35 Outswing 2 Lites over 2 Panels 35 -52 Inswing 52 Outswing 2 Lites over 2 Panels -35 4 Panels (2 over 2) 35 -52 Inswing 4 Panels (2 over 2) 52 -35 Outswing 35 -52 Inswing 3 Panels (1 over 2) 52 Outswing 3 Panels (1 over 2) -35 2 Panels 35 -52 Inswing

SINGLE DOORS - SQUARE-TOP/EYEBROW (ARCH-TOP)

Nominal Size	Swing	Configuration	Design Pressures (psf)	
3068	Inswing	Full Lite	45	-50
	Outswing	Full Lite	62	-47
	Inswing	Full Panel	76	-76
	Outswing	Full Panel	76	-76
	Inswing	3/4-Lite over 1 Panel	47	-62
	Outswing	3/4-Lite over 1 Panel	47	-50
	Inswing	3/4-Lite over 2 Panels	47	-62
	Outswing	3/4-Lite over 2 Panels	47	-50
	Inswing	2 Lites over 2 Panels	52	-55
	Outswing	2 Lites over 2 Panels	55	-50
	Inswing	4 Panels (2 over 2)	52	-55
	Outswing	4 Panels (2 over 2)	55	-50
	Inswing	3 Panels (1 over 2)	50	-72
	Outswing	3 Panels (1 over 2)	72	-50
	Inswing	2 Panels	76	-76
	Outswing	2 Panels	72	-50
3080	Inswing	3/4-Lite over 1 Panel	47	-62
	Outswing	3/4-Lite over 1 Panel	62	-47
	Inswing	3/4-Lite over 2 Panels	47	-62
	Outswing	3/4-Lite over 2 Panels	62	-47
	Inswing	2 Lites over 2 Panels	52	-55
	Outswing	2 Lites over 2 Panels	55	-52
	Inswing	4 Panels (2 over 2)	52	-55
	Outswing	4 Panels (2 over 2)	55	-52
	Inswing	3 Panels (1 over 2)	52	-55
	Outswing	3 Panels (1 over 2)	55	-52
	Inswing	2 Panels	76	-76
	Outswing	2 Panels	76	-76

SINGLE DOORS - RADIUS TOP

July 10th, 2008

Nominal Size	Swing	Configuration	Design Pressures (psf)	
3068	Inswing	Full Lite	45	-50
	Outswing	Full Lite	55	-47
	Inswing	Full Panel	52	-55
	Outswing	Full Panel	55	-52
	Inswing	3/4-Lite over 1 Panel	47	-55
	Outswing	3/4-Lite over 1 Panel	55	-47
	Inswing	3/4-Lite over 2 Panels	47	-55
	Outswing	3/4-Lite over 2 Panels	55	-47
	Inswing	2 Lites over 2 Panels	52	-55
	Outswing	2 Lites over 2 Panels	55	-52
	Inswing	4 Panels (2 over 2)	52	-55
	Outswing	4 Panels (2 over 2)	55	-52
	Inswing	3 Panels (1 over 2)	50	-55
	Outswing	3 Panels (1 over 2)	55	-50
	Inswing	2 Panels	52	-55
	Outswing	2 Panels	55	-52
3080	Inswing	3/4-Lite over 1 Panel	47	-55
	Outswing	3/4-Lite over 1 Panel	55	-47
	Inswing	3/4-Lite over 2 Panels	47	-55
	Outswing	3/4-Lite over 2 Panels	55	-47
	Inswing	2 Lites over 2 Panels	52	-55
-	Outswing	2 Lites over 2 Panels	55	-52
	Inswing	4 Panels (2 over 2)	52	-55
	Outswing	4 Panels (2 over 2)	55	-52
	Inswing	3 Panels (1 over 2)	52	-55
	Outswing	3 Panels (1 over 2)	55	-52
	Inswing	2 Panels	52	-55
	Outswing	2 Panels	55	-52

Revisions

OUTSWING DOORS: Design Pressures Shall be Limited to +52 psf and -35 psf When Lites are True-Divided. **INSWING DOORS:** Design Pressures Shall be Limited to +35psf and -35 psf When Lites are True-Divided.

52

-35

CATEGORY 5
Engineering Services, Inc.

1600 S. Federal Highway, #207 Pompano Beach, FL 33062 (954) 784-6991

STILE AND RAIL WOOD DOORS

MAI DOORS by DISTINCTIVE DOORS, Inc. 933 Hensley Lane, Wylie, TX 75098

dwg no. drawn by rev no. MAi-080520A

Émma T. Mellinger, P.E. FL PE #50049 CA #25854

of **8**

sheet title

Outswing

2 Panels

ALLOWABLE DESIGN PRESSURE TABLES

TABLE 4.

DOORS WITH SIDELITES

[68-Tall Sidelites are full-Lite; 80-Tall Sidelites are 3/4-Lite]

Nominal Size	Swing	Door Configuration	Design Pressures (psf)	
3068	Inswing	Full Lite	45	-50
	Outswing	Full Lite	62	-47
	Inswing	Full Panel	45	-50
	Outswing	Full Panel	62	-47
	Inswing	3/4-Lite over 1 Panel	45	-50
	Outswing	3/4-Lite over 1 Panel	62	-47
	Inswing	3/4-Lite over 2 Panels	45	-50
	Outswing	3/4-Lite over 2 Panels	62	-47
	Inswing	2 Lites over 2 Panels	45	-50
	Outswing	2 Lites over 2 Panels	62	-47
	Inswing	4 Panels (2 over 2)	45	-50
	Outswing	4 Panels (2 over 2)	55	-47
	Inswing	3 Panels (1 over 2)	45	-50
	Outswing	3 Panels (1 over 2)	62	-47
	Inswing	2 Panels	45	-50
	Outswing	2 Panels	62	-47
3080	Inswing	3/4-Lite over 1 Panel	35	-45
	Outswing	3/4-Lite over 1 Panel	45	-35
	Inswing	3/4-Lite over 2 Panels	35	-45
	Outswing	3/4-Lite over 2 Panels	45	-35
	Inswing	2 Lites over 2 Panels	35	-45
	Outswing	2 Lites over 2 Panels	55	-45
	Inswing	4 Panels (2 over 2)	35	-45
	Outswing	4 Panels (2 over 2)	55	-45
	Inswing	3 Panels (1 over 2)	35	-45
	Outswing	3 Panels (1 over 2)	55	-45
	Inswing	2 Panels	35	-45
	Outswing	2 Panels	55	-45

RADIUS-TOP DOOR WITH 14" SURROUND

TABLE 5.

Nominal Size	Swing	Door Configuration	Design Pressures (psf)	
3080	Inswing	3/4-Lite over 1 Panel	47	-55
		3/4-Lite over 2 Panels	47	-62
		2 Lites over 2 Panels	52	-55
		4 Panels (2 over 2)	52	-55
		3 Panels (1 over 2)	52	-55
		2 Panels	52	-55

TABLE 6.

DOORS WITH INTEGRAL TRANSOM

Nominal Size	Swing	Door Configuration	Design Pressures (psf)	
3068	Inswing	Full Lite	45	-50
	Outswing	Full Lite	50	-45
	Inswing	Full Panel	45	-50
	Outswing	Full Panel	62	-47
	Inswing	3/4-Lite over 1 Panel	45	-50
	Outswing	3/4-Lite over 1 Panel	62	-47
	Inswing	3/4-Lite over 2 Panels	45	-50
	Outswing	3/4-Lite over 2 Panels	62	-47
	Inswing	2 Lites over 2 Panels	45	-50
	Outswing	2 Lites over 2 Panels	55	-47
	Inswing	4 Panels (2 over 2)	45	-50
	Outswing	4 Panels (2 over 2)	55	-47
	Inswing	3 Panels (1 over 2)	45	-50
	Outswing	3 Panels (1 over 2)	62	-47
	Inswing	2 Panels	45	-50
	Outswing	2 Panels	62	-47

TABLE 7.

INDEPENDENT TRANSOM

July 10th, 2008

Nominal Size	Swing	Door Configuration	1 -	Design Pressures (psf)	
3068	NA	Full Lite	62	-62	

Revisions

OUTSWING DOORS: Design Pressures Shall be Limited to +52 psf and -35 psf When Lites are True-Divided.

INSWING DOORS: Design Pressures Shall be Limited to +35psf and -35 psf When Lites are True-Divided.

CATEGORY 5
Engineering Services, Inc.

1600 S. Federal Highway. #207 Pompano Beach, FL 33062 (954) 784-6991 STILE AND RAIL WOOD DOORS

MAI DOORS by DISTINCTIVE DOORS, Inc. 933 Hensley Lane, Wylie, TX 75098

dwg no. MAi-080520A rev no. 0 drawn by ETM date

7/16/08 Emma T. Mellinger, P.E. FL PE #50049 , CA #25854

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ALLOWABLE DESIGN PRESSURE TABLES (Continued)