



MIAMI-DADE COUNTY
BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 372-6339

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/buildingcode

Designer Doors, Inc.
702 Troy Street
River Falls, WI 54022

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone

DESCRIPTION: Model WSI-1-3 Wood Sectional Garage Door

APPROVAL DOCUMENT: Drawing No. **WSI-1-3**, titled "Hurricane Frame, Woodscapes, Un-Glazed Impact", Sheets 1 through 5 of 5, dated 01/05/09, with last revision 1 dated 09/02/09, prepared by Designer Doors, Inc, signed and sealed by Richard A. Baumann, P.E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



[Handwritten Signature]
 9/14/09

NOA No. 09-0604.16
Expiration Date: October 07, 2014
Approval Date: October 07, 2009
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **WSI-1-3**, titled "Hurricane Frame, Woodscapes, Un-Glazed Impact", Sheets 1 through 5 of 5, dated 01/05/09, with last revision 1 dated 09/02/09, prepared by Designer Doors, Inc, signed and sealed by Richard A. Baumann, P.E.

B. TESTS

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
4) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
Along with marked-up drawings and installation diagram of Series/Model WSI-3, 10680 Wood Garage Doors, prepared by Architectural Testing, Inc., Test Report No. **87473.01-201-18**, dated 02/20/09, signed and sealed by Joseph A. Reed, P.E.
2. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
4) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
Along with marked-up drawings and installation diagram of Series/Model WSI-3, 9080 Wood Garage Doors, prepared by Architectural Testing, Inc., Test Report No. **87472.01-201-18**, dated 02/20/09, signed and sealed by Joseph A. Reed, P.E.

C. CALCULATIONS

1. Anchor calculations prepared by Wendler Engineering Services, Inc, dated 06/23/09, signed and sealed by Richard A. Baumann, P.E.

D. QUALITY ASSURANCE

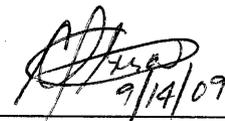
1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

1. UL Listing for Foam Plastic, Report # R13184.

F. STATEMENTS

1. Code compliance letter issued by Wendler Engineering Services, Inc, dated 05/27/09, signed and sealed by Richard A. Baumann, P.E.
2. No financial interest letter issued by Wendler Engineering Services, Inc, dated 05/27/09, signed and sealed by Richard A. Baumann, P.E.



9/14/09

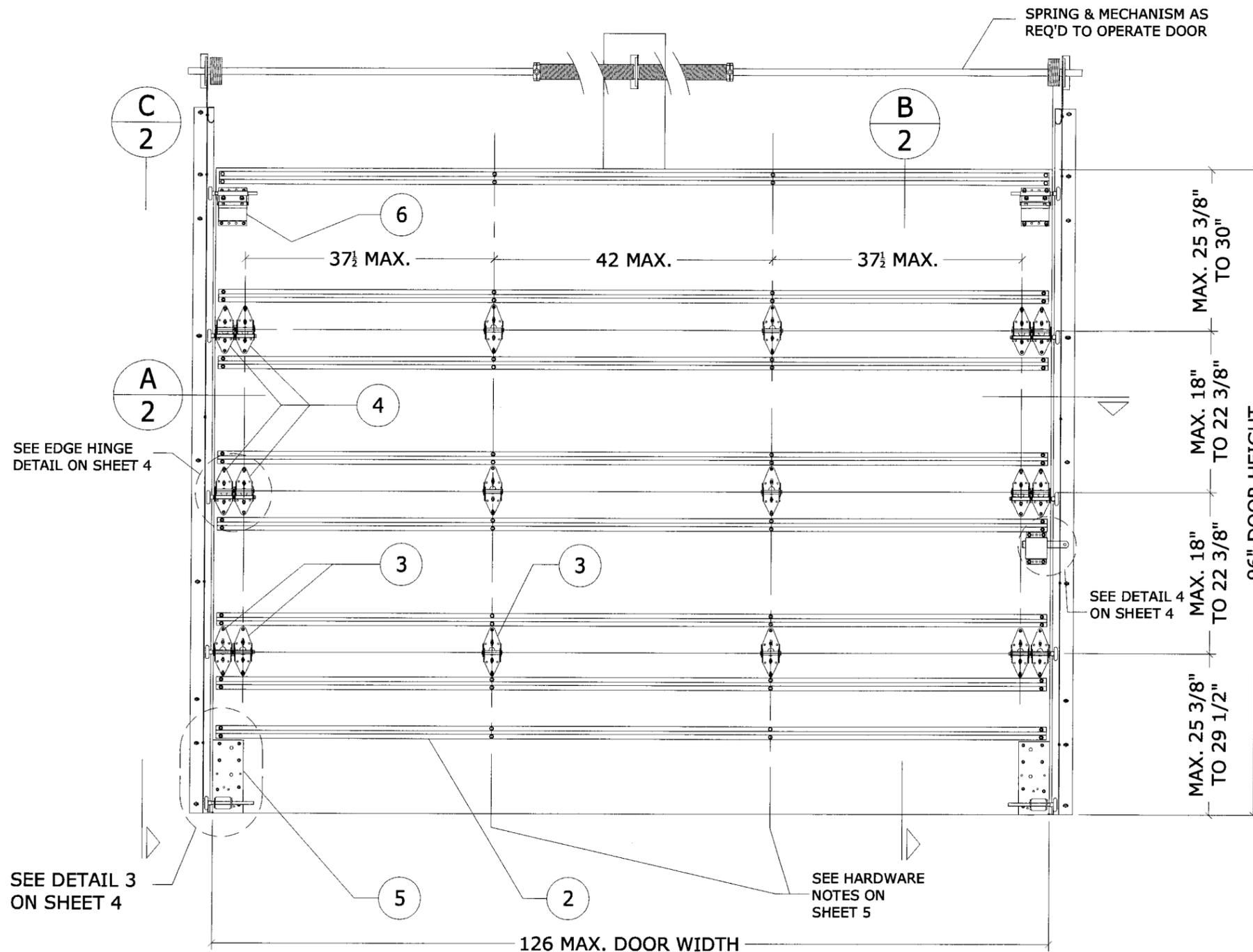
Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 09-0604.16

Expiration Date: October 07, 2014
Approval Date: October 07, 2009

REVISIONS			
REV	DESCRIPTION	CHG BY	DATE
0	RELEASE	RRD	1-5-09
1	Added slide lock to assembly	RRD	9-2-09

GENERAL NOTES:

1. THESE GARAGE DOOR SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT GARAGE DOORS.
5. THESE GARAGE DOOR SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE GARAGE DOORS.
7. ALL ANCHORS SECURING DOORS TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED WHEN USED IN CONJUNCTION WITH LOAD COMBINATIONS SPECIFIED IN SECTION 2.0 OF THE ASCE 7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. ALL WOOD MEMBERS OF DOORS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC SECTION 2326.



INTERIOR ELEVATION

**ALLOWABLE DESIGN PRESSURE
(ALL DOOR CONDITIONS)**

+48/-60 PSF

Approved as complying with the
Florida Building Code
Date 10/07/2009
NOA# 07-0604.16
Miami Dade Product Control
Division
By [Signature]

Reviewing Engineer
Richard A. Baumann F.P.E.

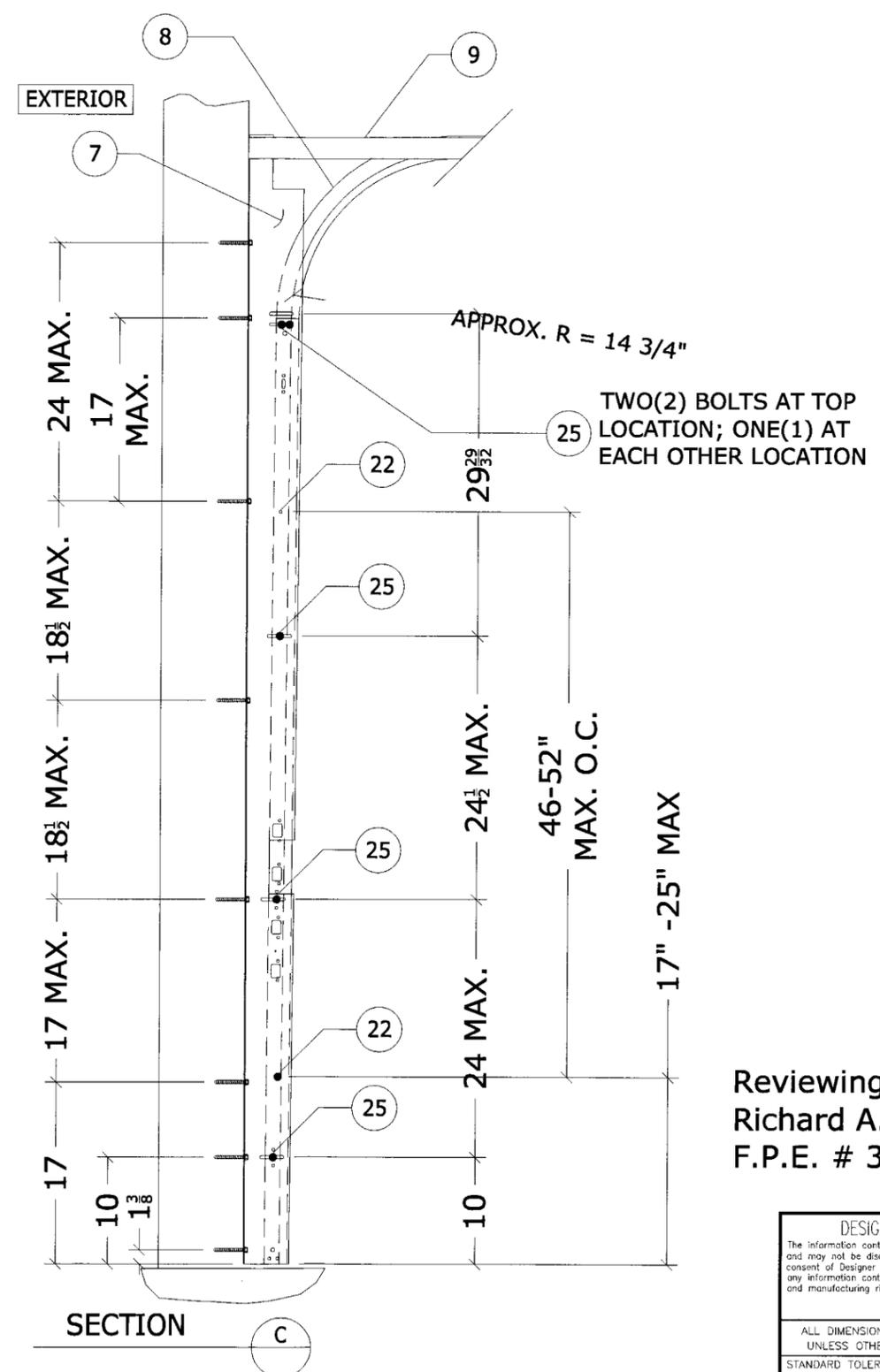
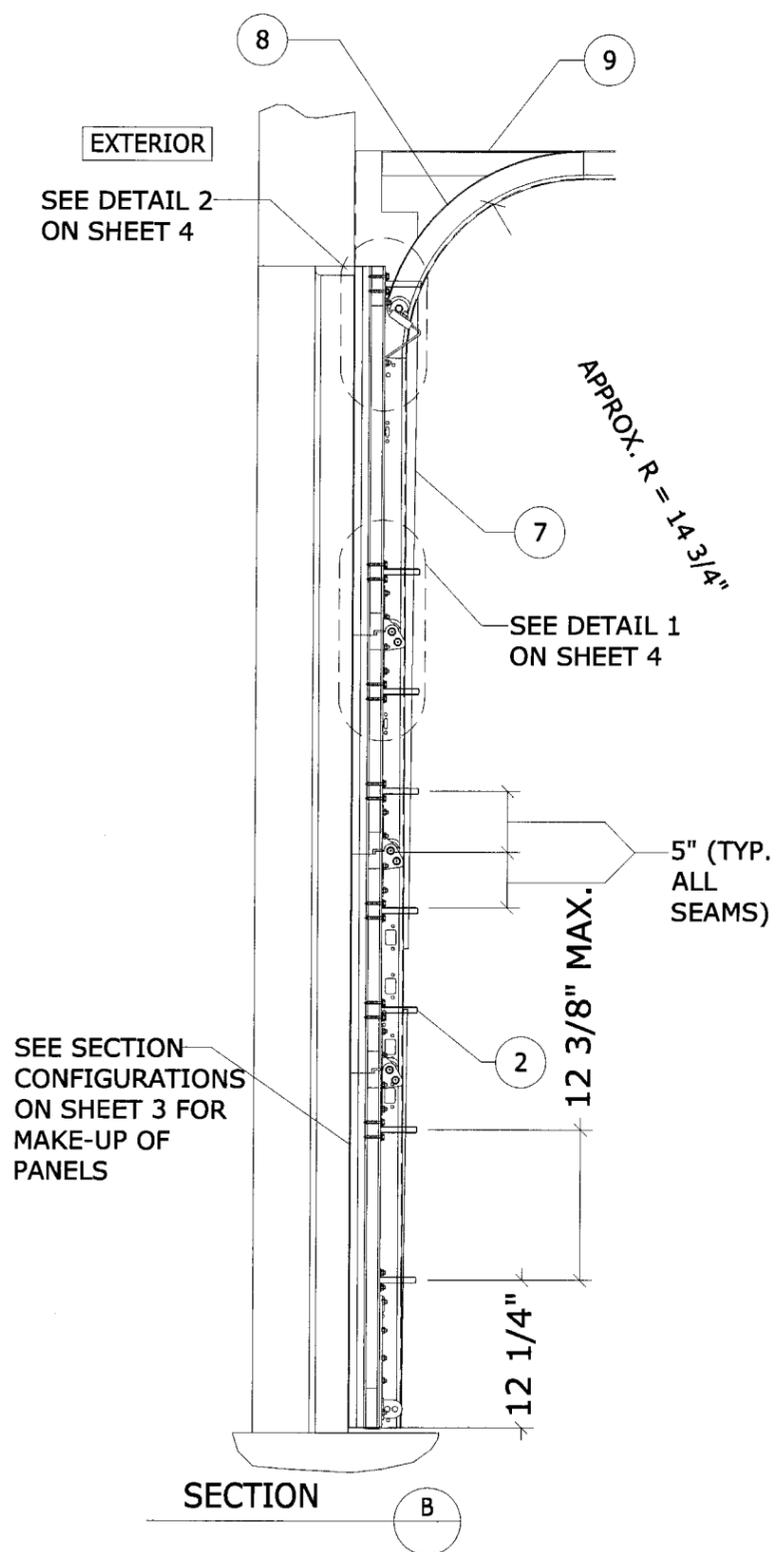
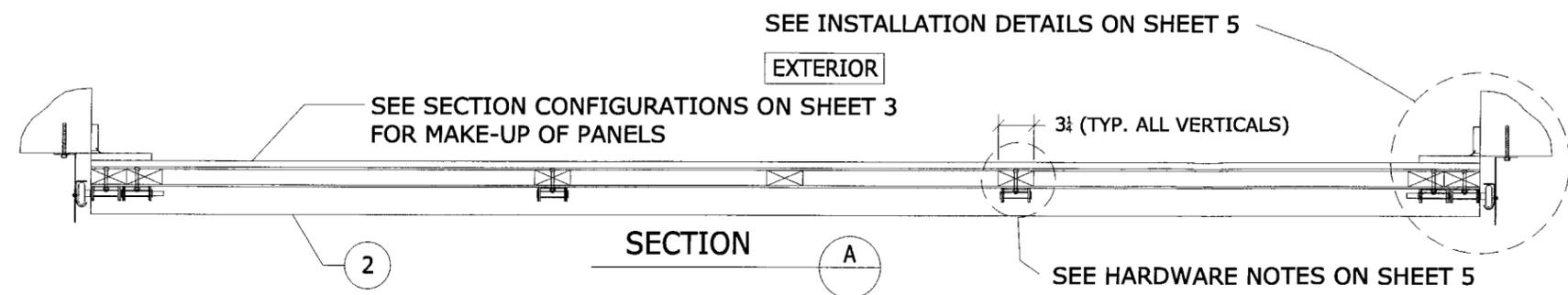
NOTE: DOOR HEIGHT MAY BE INCREASED BY UP TO 22 3/8" INCREMENTS TO A MAXIMUM OF 24 FT. PROVIDING ADDITIONAL CENTER PANEL(S) IS PLACED.

F.P.E. # 36469

[Signature]
9-8-09

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Model # WSI-1-3		DOCUMENT PART # XXXX-XXXX	QTY 1 SHT 1 OF 5

REVISIONS			
REV	DESCRIPTION	CHG BY	DATE
0	RELEASE	RRD	1-5-09
1	Added slide lock to assembly	RRD	9-2-09



Approved as complying with the Florida Building Code
 Date 10/07/2009
 NOA# 09-0604-16
 Miami Dade Product Control Division
 By *[Signature]*

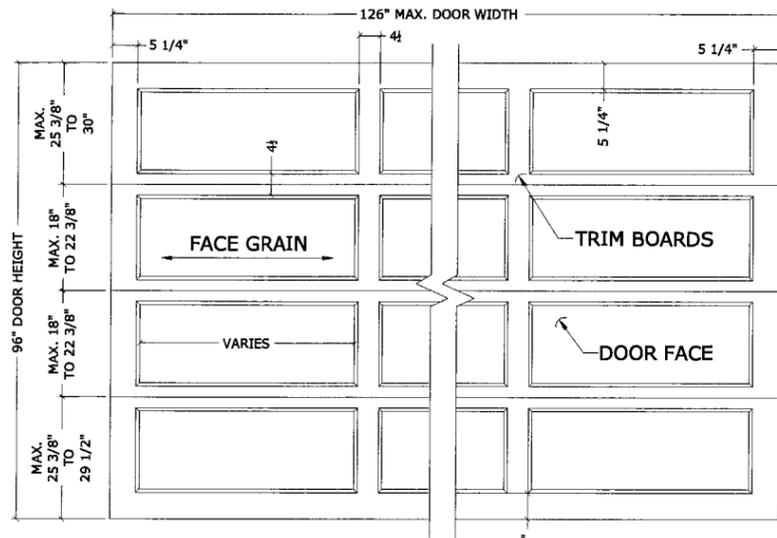
Reviewing Engineer
 Richard A. Baumann F.P.E.
 F.P.E. # 36469

[Signature]
 9-8-09

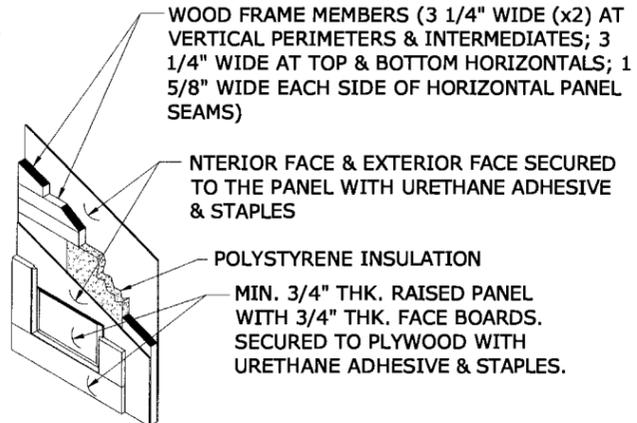
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STANDARD TOLERANCES .X± N/A .XXX± N/A ANGLES± N/A .XX± N/A .XXX± N/A FRACTIONAL± N/A	CHECKED M. BROWN	DATE 1-5-09	FINISH N/A
			DOCUMENT PART # XXXXXXX
			SCALE N/A
			QTY 1
			SHT 2 OF 5

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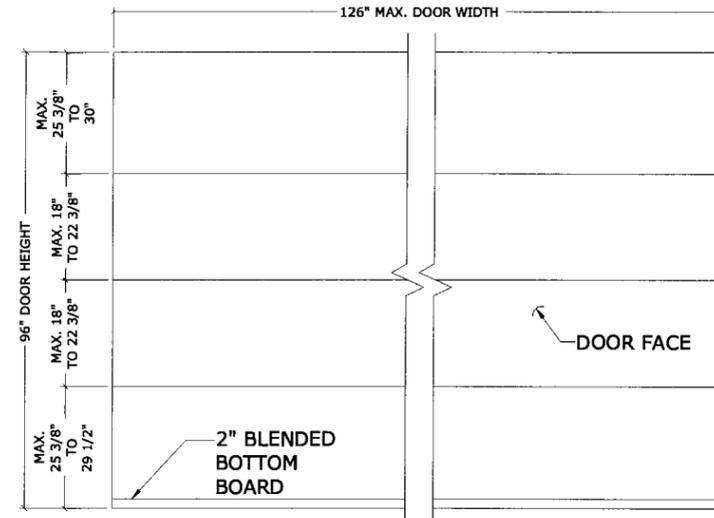
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REV	DESCRIPTION	CHG BY	DATE
0	RELEASE	RRD	1-5-09
1	Added slide lock to assembly	RRD	9-2-09



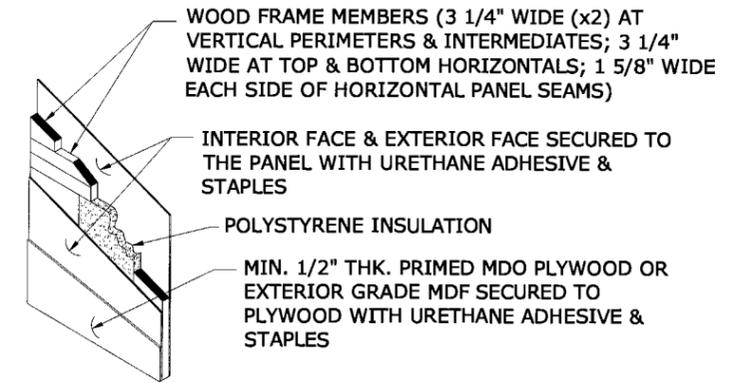
**EXTERIOR ELEVATION
RAISED PANEL GARAGE DOOR**



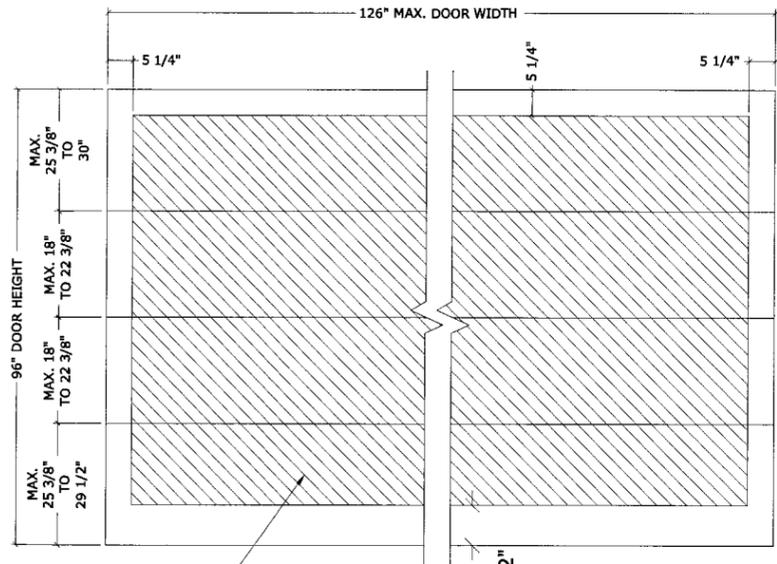
TYP. RAISED PANEL DETAIL



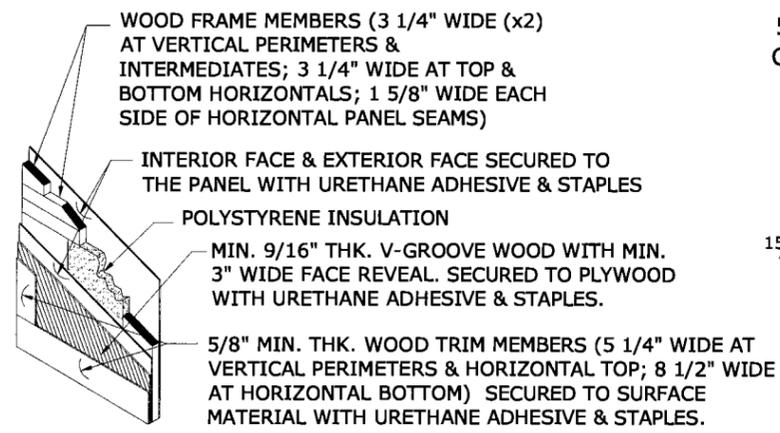
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FLAT PANEL GARAGE DOOR**



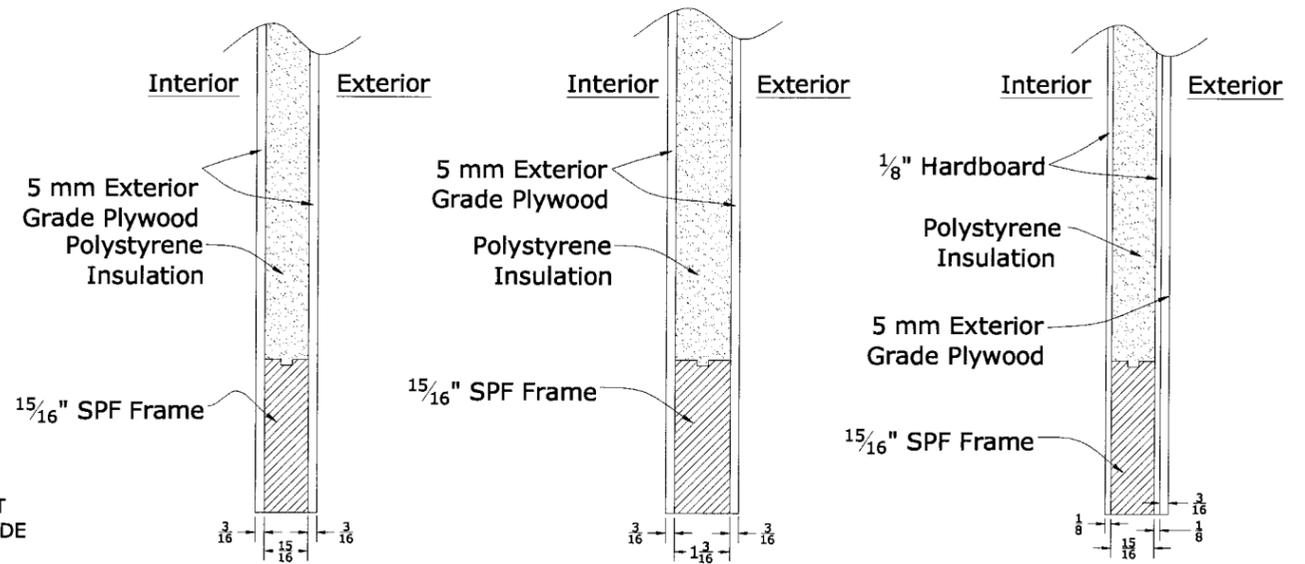
TYP. FLAT PANEL DETAIL



**EXTERIOR ELEVATION
V-GROOVE PANEL GARAGE DOOR**
(\"V-GROOVE MAY RUN IN ANY DIRECTION)



TYP. V-GROOVE PANEL DETAIL



**Frame Construction
As Tested
Model WSI-1, WSI-3,
SGI-1, SGI-3,
TBI-1, TBI-3**

**Optional Frame
Construction
Model SPI-1, SPI-3**

**Optional Frame
Construction
Model TCI-1, TCI-3,
SCI-1, SCI-3, RPI-1, RPI-3,
CWI-1, CWI-3, SBI-1,
SBI-3**

Approved as complying with the
Florida Building Code
Date: 10/07/2009
NOA#: 09-000216
Miami Dade Product Control
Division
By: [Signature]

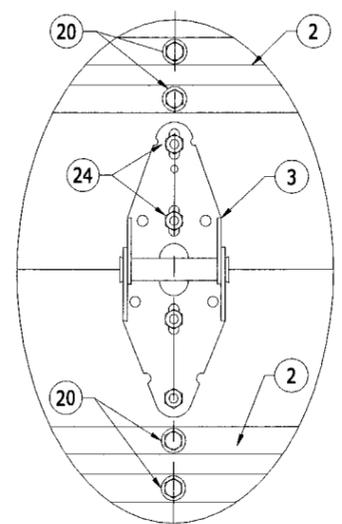
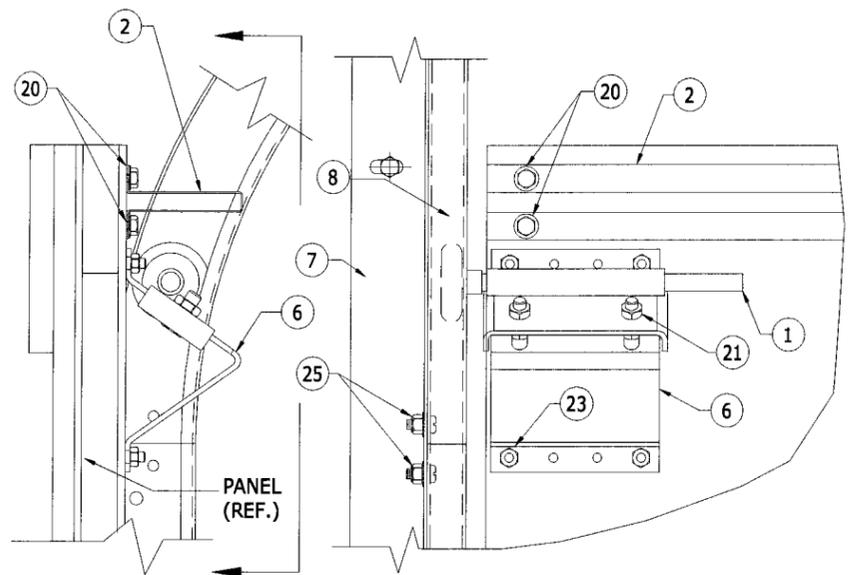
Reviewing Engineer
Richard A. Baumann F.P.E.
F.P.E. # 36469

[Signature]
9-8-09

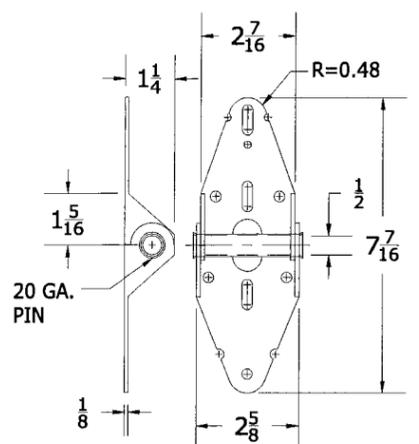
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ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED	DRAWN R. DOPP	DATE 1-5-09	DESCRIPTION Hurricane Frame, Woodscapes, Un-Glazed Impact
STANDARD TOLERANCES .X± N/A .XXX± N/A ANGLES± N/A .XX± N/A .XXXX± N/A FRACTIONAL± N/A	CHECKED M. BROWN	DATE 1-5-09	DOCUMENT PART # XXXXXX
		SCALE N/A	QTY 1
			Model # WSI-1-3
			REV 1
			SHT 3 OF 5

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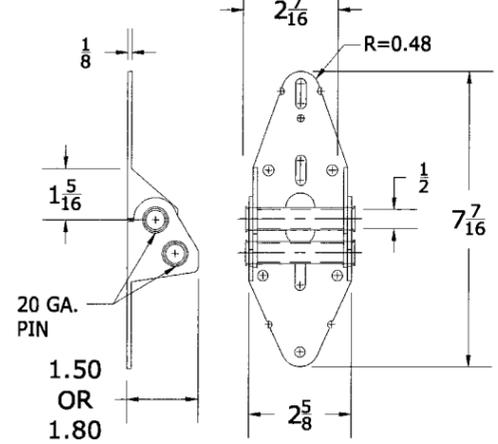
REVISIONS		
REV	DESCRIPTION	CHK BY DATE
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1	Added slide lock to assembly	RRD 9-2-09



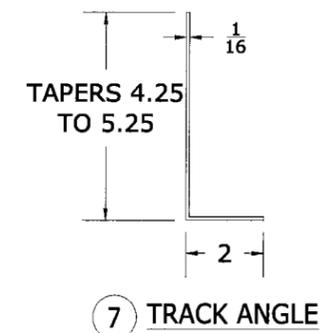
MIDDLE HINGE DETAIL



3 SINGLE PIN HINGE

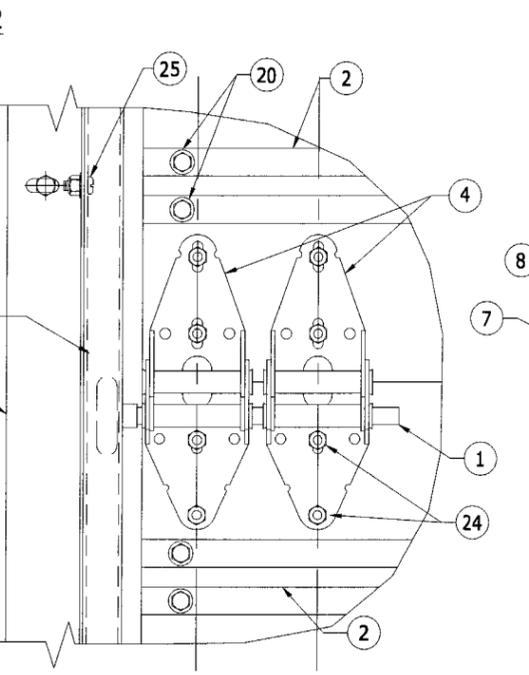
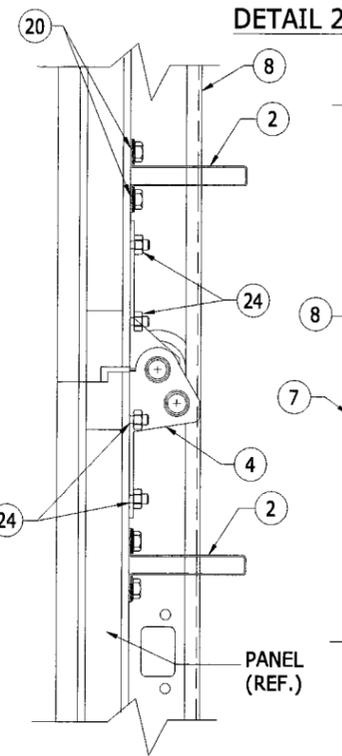


4 DOUBLE PIN HINGE

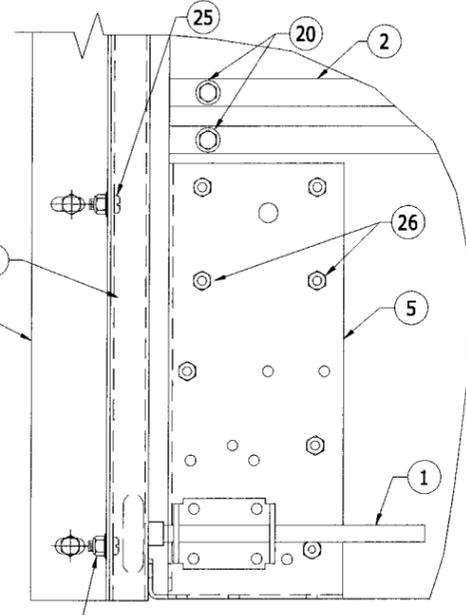


7 TRACK ANGLE

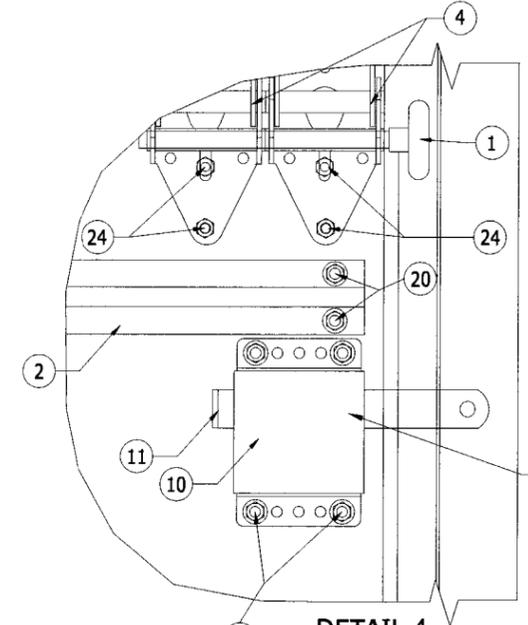
DETAIL 2



EDGE HINGE DETAIL

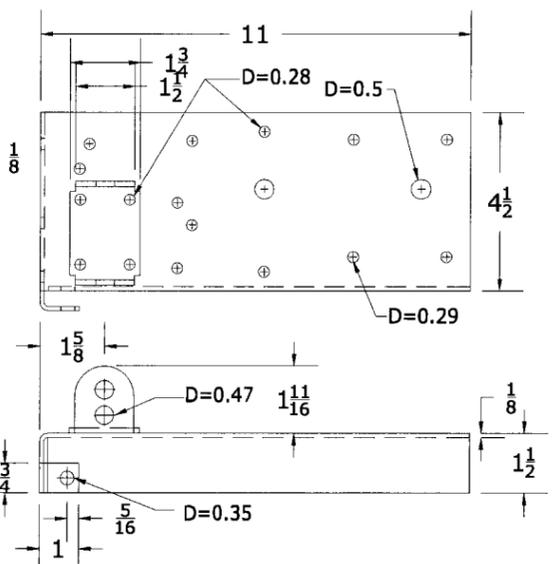
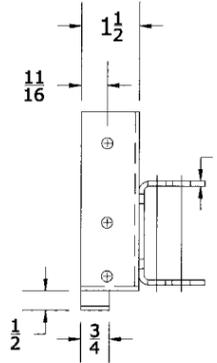


DETAIL 3



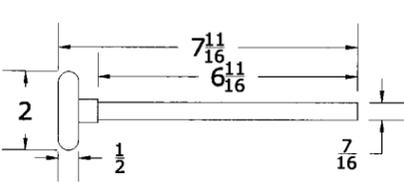
DETAIL 4

See Hardware Note 2 on Sheet 5

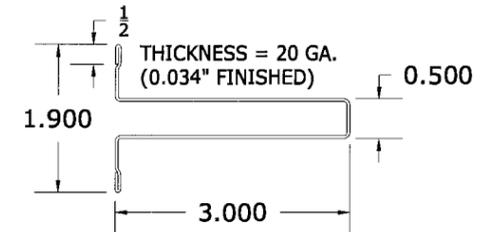


5 BOTTOM CABLE BRACKET

DETAIL 1

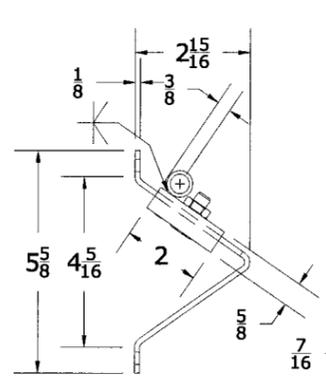


1 NYLON ROLLER WITH AISI STEEL ROD

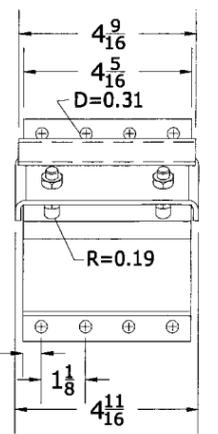


2 3" REINFORCING STRUT

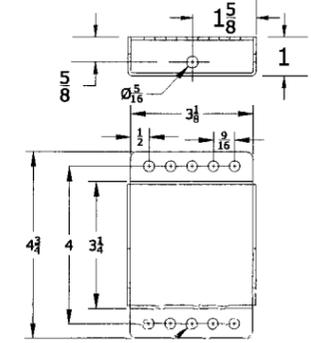
THICKNESS = 20 GA. (0.034" FINISHED)



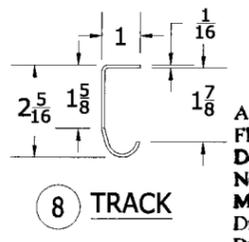
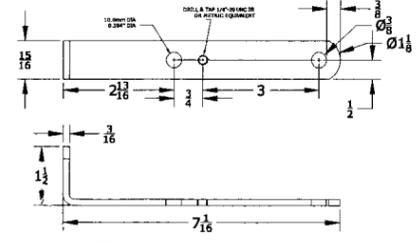
6 ADJUSTABLE TOP BRACKET



10 Case, Slide Lock



11 Slide Bolt



8 TRACK

Approved as complying with the Florida Building Code
 Date 10/07/2009
 NOA# 09-0604-16
 Miami Dade Product Control Division
 By *[Signature]*

Reviewing Engineer
 Richard A. Baumann F.P.E.
 F.P.E. # 36469

[Signature]
 9-8-09

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STANDARD TOLERANCES .X± N/A .XXX± N/A .ANGLES± N/A .XX± N/A .XXX± N/A FRACTIONAL± N/A	CHECKED M. BROWN	DATE 1-5-09	Model # WSI-1-3
			REV 1
			SCALE N/A QTY 1 SHT 4 OF 5

DESIGNER DOORS
 ARCHITECTURAL HARMONY
 702 Troy Street, River Falls, WI
 (715) 426-1100

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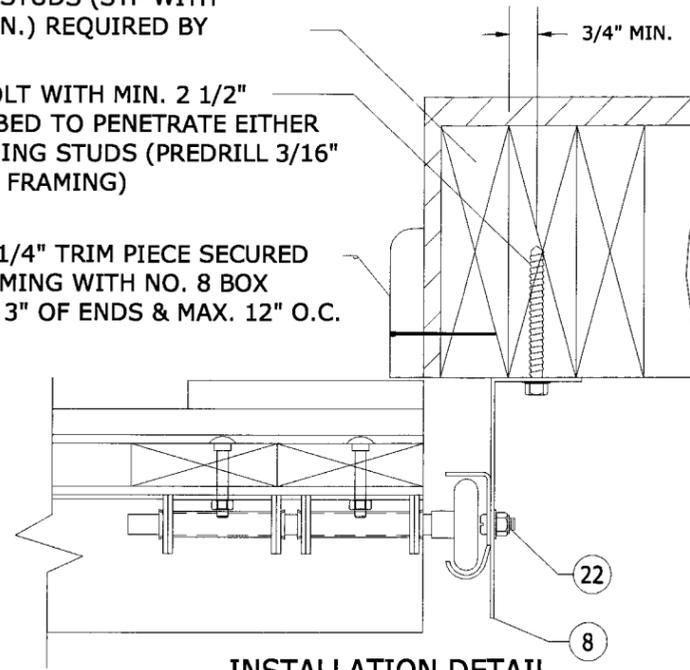
REVISIONS			
REV	DESCRIPTION	CHG BY	DATE
0	RELEASE	RRD	1-5-09
1	Added slide lock to assembly	RRD	9-2-09

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS & HARDWARE		
1	ROLLER	NYLON W/AISI 1045 STL. ROD
2	3" REINFORCING STRUT	GALV. 80 KSI STEEL
3	SINGLE ROLLER HINGE	GALV. 36 KSI STEEL
4	DOUBLE ROLLER HINGE	GALV. 36 KSI STEEL
5	BOTTOM CABLE BRACKET	GALV. 36 KSI STEEL
6	ADJUSTABLE TOP BRACKET	GALV. 36 KSI STEEL
7	TRACK ANGLE (TAPERED)	GALV. 33 KSI STEEL
8	VERTICAL TRACK (HORIZ. TRACK SIMILAR)	GALV. 33 KSI STEEL
9	HORIZONTAL REINFORCEMENT ANGLE	2" X 2" X 13GA GALV. 33 KSI STEEL
10	CASE, SLIDE LOCK	STEEL 1018 ZINC PLATED
11	SLIDE BOLT	STEEL 1018 ZINC PLATED
MISCELLANEOUS FASTENERS		
20	1/4 X 1 1/2 HEX WASHER HEAD LAG SCREW	ALIGNED WITH HINGES PER ELEVATIONS
21	3/8-16 BOLT	2 AT EACH TOP BRACKET
22	1/4-20 X 5/8 RIB NECK TRACK BOLT 1/4-20 X SERRATED FLANGE NUT	2 PER TRACK (FIELD DRILLED & INSTALLED)
23	1/4 X 1 7/8 SQUARE NECK ROUND HEAD BOLT 1/4-20 X SERRATED FLANGE NUT	4 PER TOP BRACKET
24	1/4 X 1 7/8 SQUARE NECK ROUND HEAD BOLT 1/4-20 X SERRATED FLANGE NUT	4 PER HINGE
25	1/4-20 X 5/8 RIB NECK TRACK BOLT 1/4-20 X SERRATED FLANGE NUT	5 PER TRACK
26	1/4 X 1 7/8 SQUARE NECK ROUND HEAD BOLT 1/4-20 X SERRATED FLANGE NUT	7 PER BOTTOM CABLE BRACKET

MIN. (4) 2X_ STUDS (SYP WITH S.G.=0.55 MIN.) REQUIRED BY OTHERS

5/16" LAG BOLT WITH MIN. 2 1/2" FRAMING EMBED TO PENETRATE EITHER OF THE FRAMING STUDS (PREDRILL 3/16" DIA. HOLE IN FRAMING)

MIN. 3/4" X 3 1/4" TRIM PIECE SECURED TO WOOD FRAMING WITH NO. 8 BOX NAILS WITHIN 3" OF ENDS & MAX. 12" O.C.

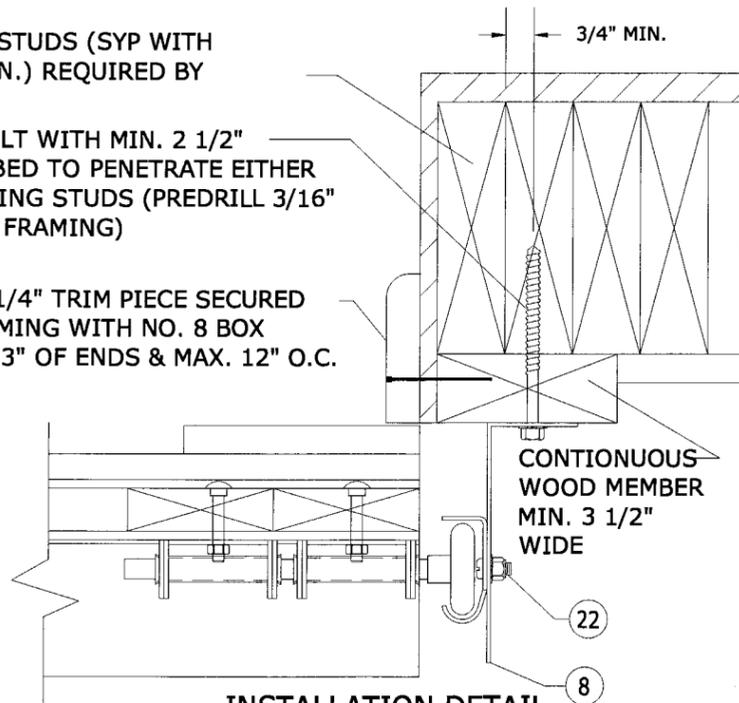


**INSTALLATION DETAIL
DIRECT TO WOOD FRAMING**

MIN. (4) 2X_ STUDS (SYP WITH S.G.=0.55 MIN.) REQUIRED BY OTHERS

5/16" LAG BOLT WITH MIN. 2 1/2" FRAMING EMBED TO PENETRATE EITHER OF THE FRAMING STUDS (PREDRILL 3/16" DIA. HOLE IN FRAMING)

MIN. 3/4" X 3 1/4" TRIM PIECE SECURED TO WOOD FRAMING WITH NO. 8 BOX NAILS WITHIN 3" OF ENDS & MAX. 12" O.C.

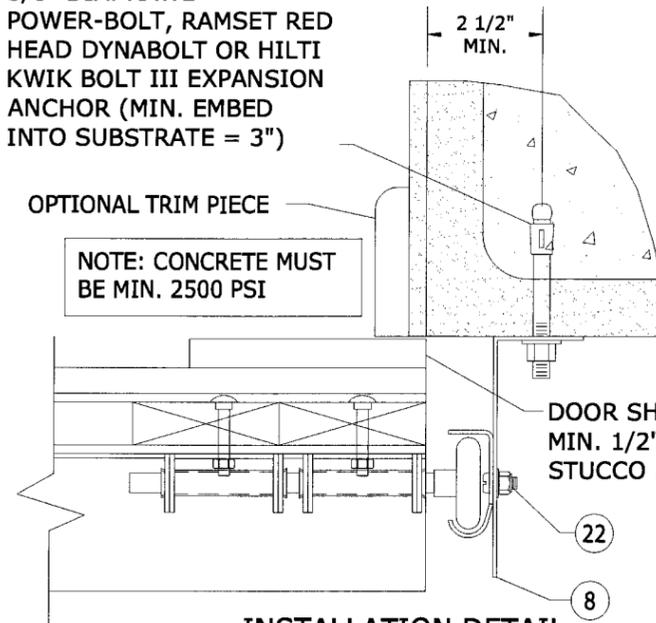


**INSTALLATION DETAIL
SHIMMED TO WOOD FRAMING**

3/8" DIA. RAWL POWER-BOLT, RAMSET RED HEAD DYNABOLT OR HILTI KWIK BOLT III EXPANSION ANCHOR (MIN. EMBED INTO SUBSTRATE = 3")

OPTIONAL TRIM PIECE

NOTE: CONCRETE MUST BE MIN. 2500 PSI

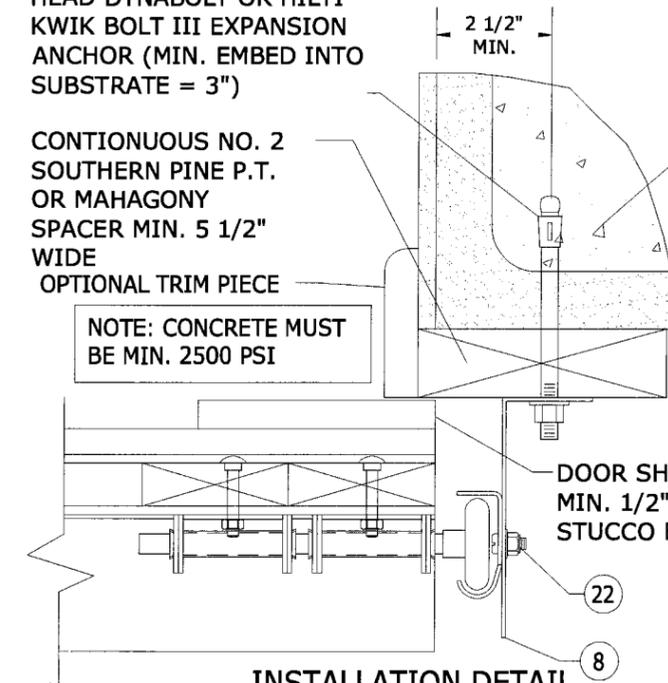


**INSTALLATION DETAIL
DIRECT TO FILLED BLOCK
OR SOLID CONCRETE**

3/8" DIA. RAWL POWER-BOLT, RAMSET RED HEAD DYNABOLT OR HILTI KWIK BOLT III EXPANSION ANCHOR (MIN. EMBED INTO SUBSTRATE = 3")

CONTINUOUS NO. 2 SOUTHERN PINE P.T. OR MAHAGONY SPACER MIN. 5 1/2" WIDE

NOTE: CONCRETE MUST BE MIN. 2500 PSI



**INSTALLATION DETAIL
SHIMMED TO FILLED BLOCK
OR SOLID CONCRETE**

C90 CONCRETE BLOCK WITH MIN. 2000 PSI GROUTED CELLS OR MIN. 2500 PSI SOLID CONCRETE

DOOR SHALL EXTEND MIN. 1/2" BEYOND STUCCO EDGE

Approved as complying with the Florida Building Code
Date 10/07/2009
NOA# 09-0604-16
Miami Dade Product Control Division
By *[Signature]*

PANEL NOTES:

1. HORIZONTAL & VERTICAL FRAME MEMBERS ARE BUTTED TOGETHER & GLUED WITH TYPE 1 WOOD GLUE. IN ADDITION, THE VERTICAL MEMBERS ARE SCREWED TO THE HORIZONTAL WITH 2 NO. 8 X 1 1/2" SCREWS ANGLED FROM THE BACK FACE OF THE DOOR.
2. 5mm PLYWOOD IS STAPLED TO THE FRAME WITH 18 GA. X 5/8" X 1/4" STAPLES AND GLUED WITH DEGABOND 948 URETHANE ADHESIVE OR EQUIVALENT.
3. THE EXTERIOR PANEL/STRIPS ARE ATTACHED TO THE 5mm PLYWOOD AND FRAME WITH 18 GA. X 1 1/2" X 1/4" STAPLES AND CHEMREX 948 URETHANE ADHESIVE.
4. EXTERIOR FINISH WOOD (PANELS/STRIPS) USED IN TESTING WAS NO. 2 WESTERN RED CEDAR WITH A SPECIFIC GRAVITY OF G = 0.32. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.32 OR GREATER.
5. ALL INTERIOR FRAME MEMBERS SHALL BE SPRUCE/ PINE/ FIR WITH G = 0.33.
6. IT IS THE OPTION OF DESIGNER DOOR TO INCORPORATE AN INTERIOR FINISH FACE ON ANY DOOR. THIS FACE SHALL BE EQUAL TO THOSE EXTERIOR FACES APPROVED PER THE DETAILS ON THIS DRAWING AND BE SECURED TO THE DOOR IN THE SAME MANNER AS THE EXTERIOR FACE. THIS INTERIOR FACE SHALL BE AN ADDITIONAL LAYER AND SHALL NOT REPLACE ANY LAYER SHOWN IN THE DETAILS ON THIS SHEET. ALSO, ALL HARDWARE LAG SCREWS SHALL BE LENGTHENED TO MIN. 2 1/4" TO ALLOW FOR THE ADDITIONAL THICKNESS OF THE ADDED INTERIOR SKIN.

HARDWARE NOTES:

1. DOORS EQUAL TO AND LESS THAN 108", WILL ONLY REQUIRE (1) CENTER FRAME STILE/HINGE CONFIGURATION.
2. SLIDE LOCK MAY BE USED ON OTHER SIDE OF DOOR.

Reviewing Engineer
Richard A. Baumann F.P.E.
F.P.E. # 36469

[Signature]
9-8-09

DESIGNER DOORS, CONFIDENTIAL INFORMATION			
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ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED	DRAWN R. DOPP	DATE 1-5-09	DESCRIPTION Hurricane Frame, Woodscapes, Un-Glazed Impact
STANDARD TOLERANCES .X± N/A .XXX± N/A ANGLES± N/A .XX± N/A .XXX± N/A FRACTIONAL± N/A	CHECKED M. BROWN	DATE 1-5-09	FINISH N/A
			DOCUMENT PART # XXXXXXX
			Model # WSI-1-3
			SCALE N/A
			QTY 1
			SHT 5 OF 5

DESIGNER DOORS
ARCHITECTURAL HARMONY
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(715) 426-1100