



MIAMI-DADE COUNTY  
 PRODUCT CONTROL SECTION  
 11805 SW 26 Street, Room 208  
 Miami, Florida 33175-2474  
 T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
 BOARD AND CODE ADMINISTRATION DIVISION  
**NOTICE OF ACCEPTANCE (NOA)**

**Designer Doors International, LLC**  
 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 and accepted by Miami-Dade County RER-Product Control Section 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 Section (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. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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: Models H-3 / H-4 Insulated Wood Sectional Garage Door up to 18'-0" Wide**

**APPROVAL DOCUMENT:** Drawing No. 1618, titled "18' Wide Hurricane Impact Wood Garage Doors", sheets 1 through 7 of 7, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 10/21/2008, with last revision B1 dated 11/12/2014, signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

**LABELING:** A permanent label with the manufacturer's name or logo, manufacturing address, model/series number, the positive and negative design pressure rating, indicate impact rated if applicable, installation instruction drawing reference number, approval number (NOA), the applicable test standards, and the statement reading 'Miami-Dade County Product Control Approved' is to be located on the door's side track, bottom angle, or inner surface of a panel.

**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. An original signed and sealed company letter from Designer Doors, Inc. is required, proving that the Models H-3 / H-4 18'-0" Wide Wood Sectional Garage Door was purchased from them in order for this NOA to be valid on any job.

This NOA renews NOA # 11-1006.04 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

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



*Carlos M. Utrera*  
 02/12/2015

NOA No. 14-1118.07  
 Expiration Date: March 18, 2020  
 Approval Date: February 19, 2015  
 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**A. DRAWINGS**

1. Drawing No. **1618**, titled "18' Wide Hurricane Impact Wood Garage Doors", sheets 1 through 7 of 7, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 10/21/2008, with last revision B1 dated 11/12/2014, signed and sealed by Warren W. Schaefer, P.E.

**B. TESTS "Submitted under NOA # 10-1119.02"**

1. Test reports on 1) Large Missile Impact Test per FBC, TAS 201-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram on a Series/Model H2/4 Section, glazed garage door, prepared by Architectural Testing, Inc., Test Report No. **94833.01-201-18**, dated 01/13/2010, signed and sealed by Joseph A. Reed, P.E.
2. Addendum letter to Test Reports No. **87472.01-201-18** and **87473.01-201-18** on Forced Entry Test per FBC, FBC 2411 3.2.1, TAS 202-94, prepared by Architectural Testing, Inc., dated 08/18/2009, signed and sealed by Joseph A. Reed, P.E.

**"Submitted under NOA # 08-1224.07"**

3. 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  
  
along with marked-up drawings and installation diagram of a Double Wide Hurricane Impact Un-Glazed and Glazed Garage Doors, prepared by Hurricane Test Laboratory, LLC, Test Report No. **G507-0402-08**, dated 08/21/2008, signed and sealed by Vinu J. Abraham, P.E.

**C. CALCULATIONS: "Submitted under NOA # 08-1224.07"**

1. Anchoring and stress calculations, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 12/17/2008, signed and sealed by Warren W. Schaefer, P.E.

  
02/12/2015

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Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No. 14-1118.07  
Expiration Date: March 18, 2020  
Approval Date: February 19, 2015

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**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. 11-0624.01, issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" approved on 09/08/2011, expiring on 12/11/2016.
2. Notice of Acceptance No. 11-0325.05 issued to **Solutia, Inc.** for their "**Saflex III G**" approved on 05/05/2011, expiring on 05/21/2016.

**F. STATEMENTS**

1. Statement letter of code conformance to 2010 and 5<sup>th</sup> edition (2014) FBC issued by W.W. Schaefer Engineering & Consulting, P.A., dated 04/10/2014, signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter of no financial interest, issued by W.W. Schaefer Engineering & Consulting, P.A., dated 11/12/2014, signed and sealed by Warren W. Schaefer, P.E.
3. Asset purchase agreement dated 04/25/2014.

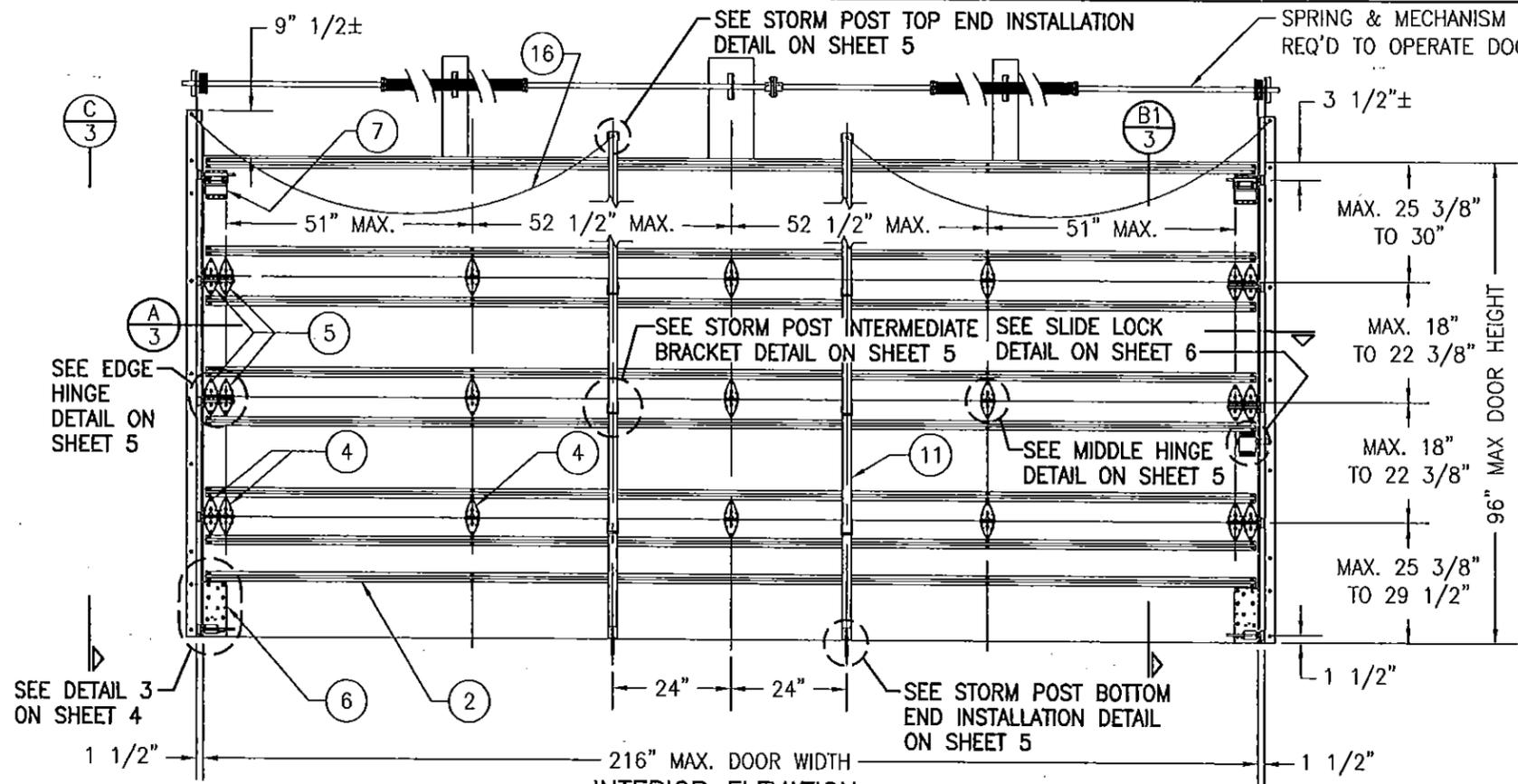


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Product Control Examiner  
NOA No. 14-1118.07  
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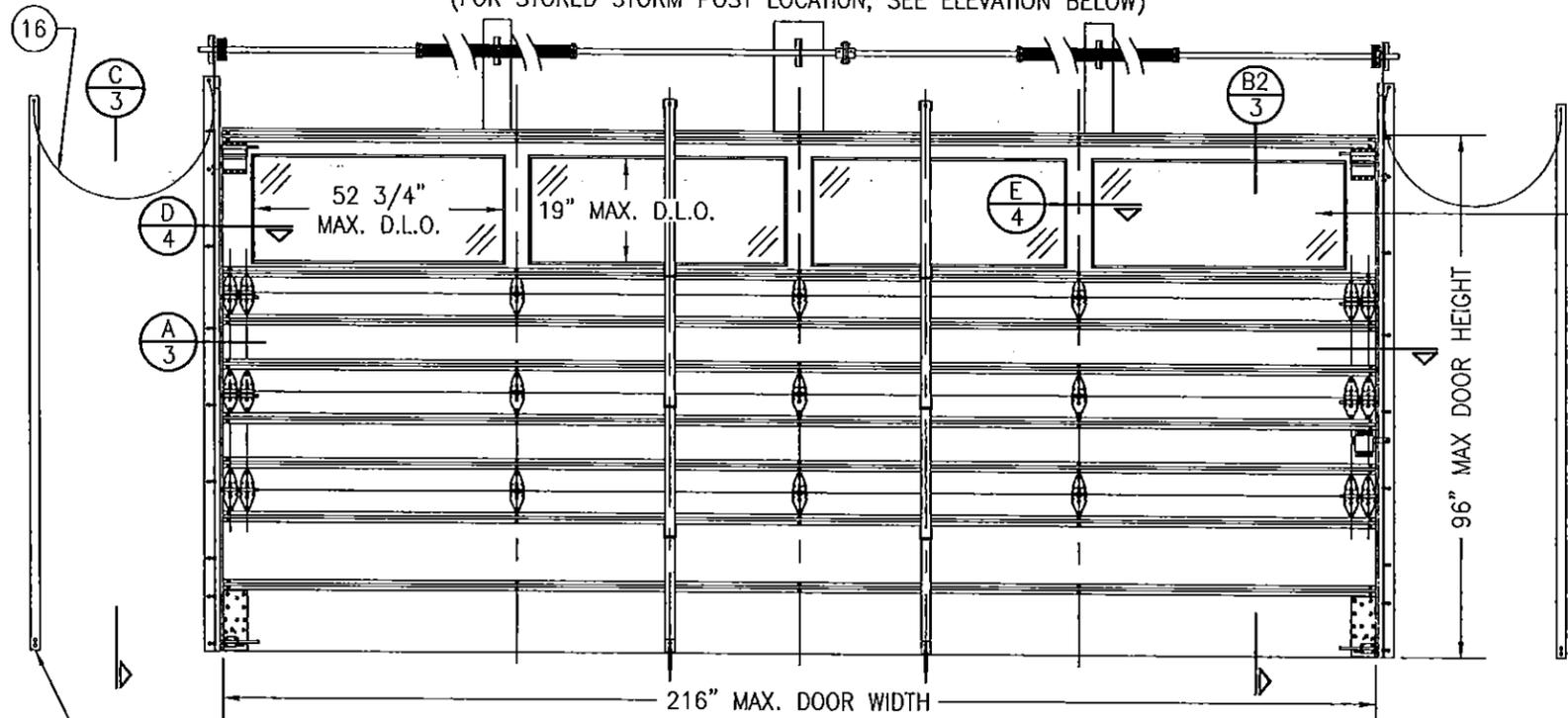
THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

DRAWN BY:	W.R.M.	CHECKED BY:	W.W.S.
PLAT:	1-32	DATE:	10/21/08



**MODEL "H-3" FULLY WOOD PANELED GARAGE DOOR**  
SCALE: 3/8" = 1'-0"

(FOR STORED STORM POST LOCATION, SEE ELEVATION BELOW)



**MODEL "H-4" PARTIALLY GLAZED GARAGE DOOR**  
SCALE: 3/8" = 1'-0"

(FOR DETAIL NOT SHOWN, SEE FULLY PANELED GARAGE DOOR ELEVATION ABOVE)

**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.

**ALLOWABLE DESIGN PRESSURE**  
(ALL DOOR CONDITIONS)  
+48/-65 PSF

(4 D.L.O. CONDITIONS SHOWN. MORE THAN 4 D.L.O.'S MAY BE PLACED ACCROSS THE DOOR IN THE TOP OR TOP MIDDLE SECTION OF THE DOOR)

**NOTE:** ALL REMOVABLE STORM POST CONNECTORS SHALL BE LINKED TO THE DOOR OR THE DOOR TRACKS SUCH THAT WHEN REMOVED, THEY WILL NOT BE LOST OR MISPLACED & WILL BE STORED IN AN ACCESSIBLE LOCATION.

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No 14-1118.07  
Expiration Date 03/18/2020  
By *[Signature]*  
Miami/Dade Product Control

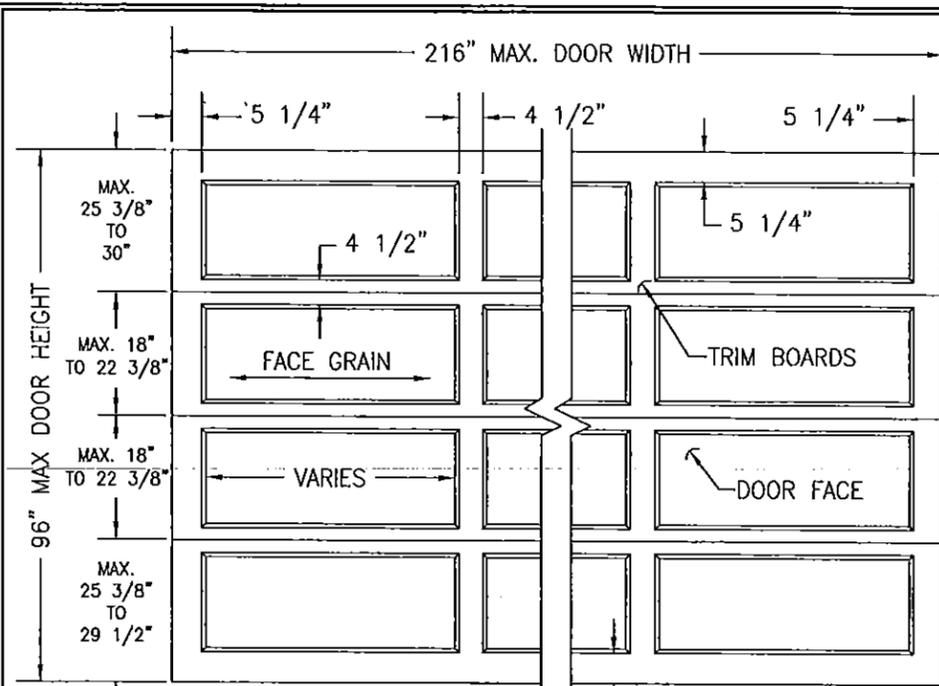


DRAWING TITLE  
**18 FT. WIDE HURRICANE IMPACT WOOD GARAGE DOORS**

MANUFACTURER  
**DESIGNER DOORS INTERNATIONAL, LLC**  
702 TROY ST.  
RIVER FALLS, WI 54022  
800-241-0525

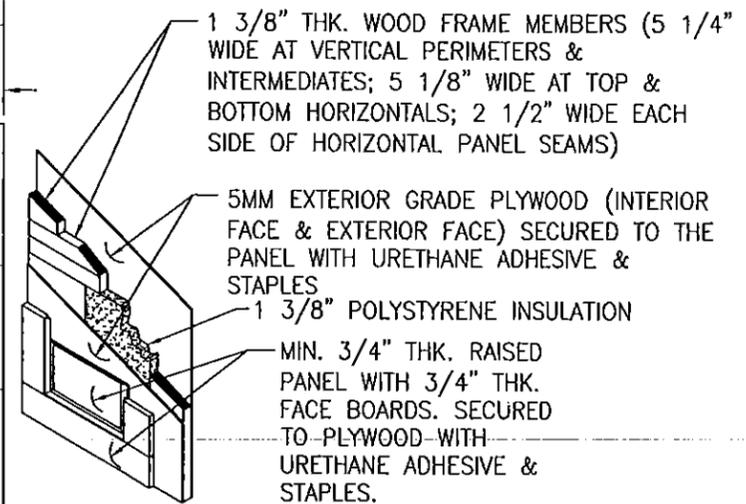
CONSULTANTS  
**W. W. SCHAEFFER ENGINEERING & CONSULTING, P.A. (CA 6809)**  
7480 150TH COURT NORTH  
PALM BEACH GARDENS, FL 33418  
PHONE: 561-744-3424

CERTIFICATION	NOV 12 2009
DRAWING NO.	1618
REV.	B
SHEET NO.	1 OF 7

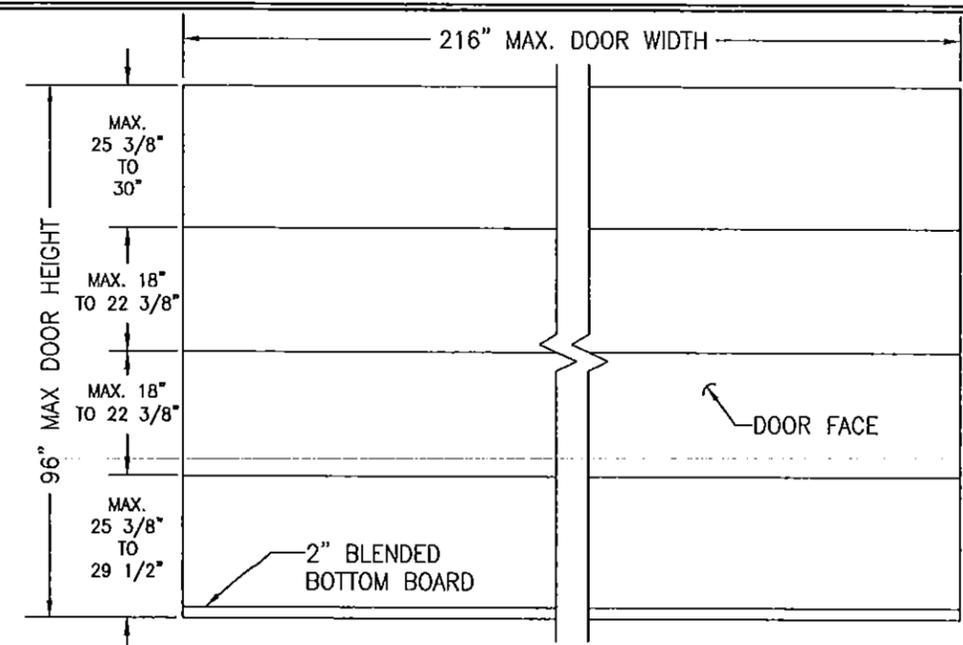


**EXTERIOR ELEVATION:  
RAISED PANEL GARAGE DOOR**

SCALE: 3/8" = 1'-0"  
(NON-GLAZED DOOR SHOWN, GLAZED DOOR IS SIMILAR)

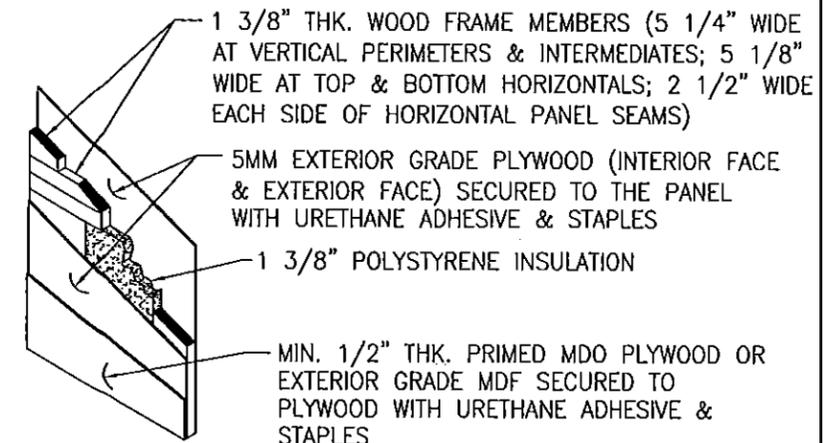


**TYP. RAISED PANEL DETAIL**  
SCALE: N.T.S.

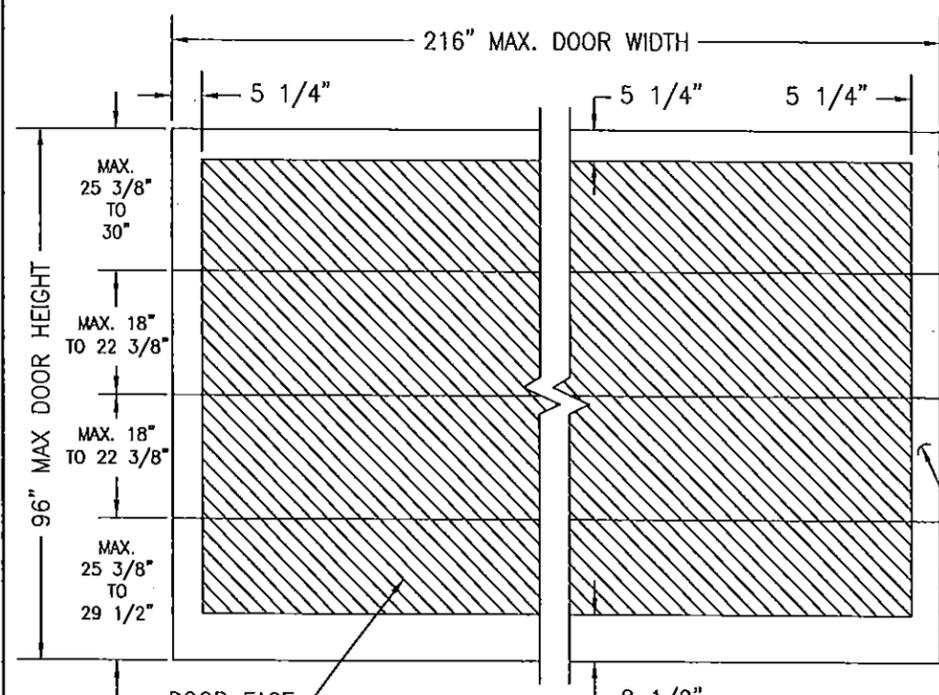


**EXTERIOR ELEVATION:  
FLAT PANEL GARAGE DOOR**

SCALE: 3/8" = 1'-0"  
(NON-GLAZED DOOR SHOWN, GLAZED DOOR IS SIMILAR)

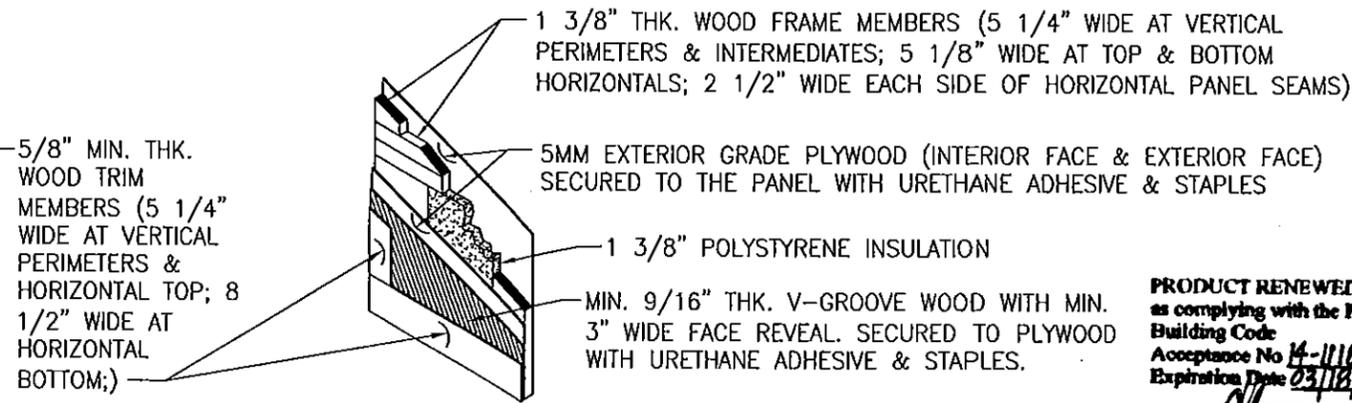


**TYP. FLAT PANEL DETAIL**  
SCALE: N.T.S.



**EXTERIOR ELEVATION:  
V-GROOVE PANEL GARAGE DOOR**

SCALE: 3/8" = 1'-0"  
(V-GROOVE MAY RUN IN ANY DIRECTION)  
(NON-GLAZED DOOR SHOWN, GLAZED DOOR IS SIMILAR)

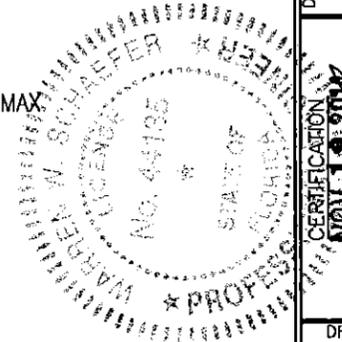
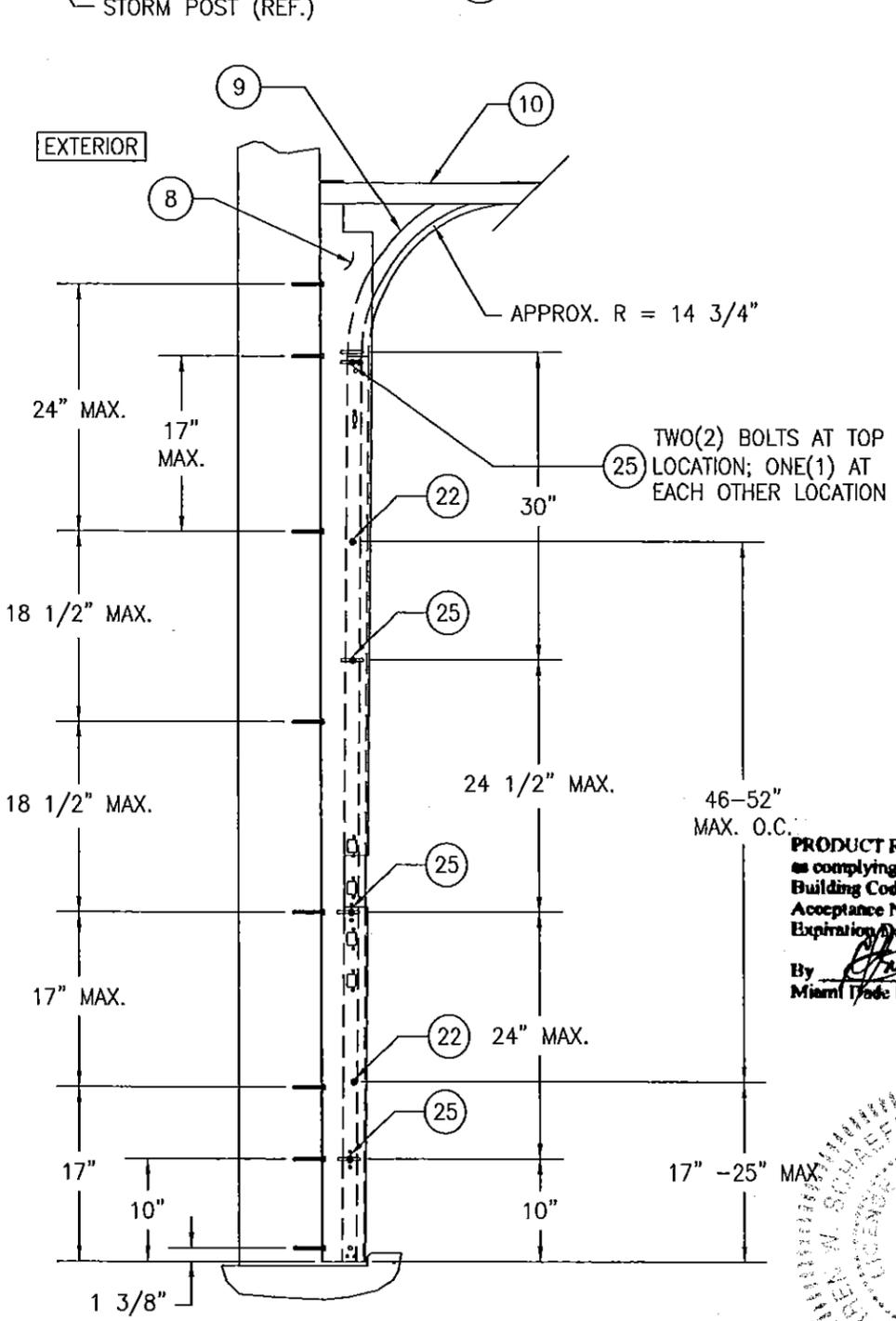
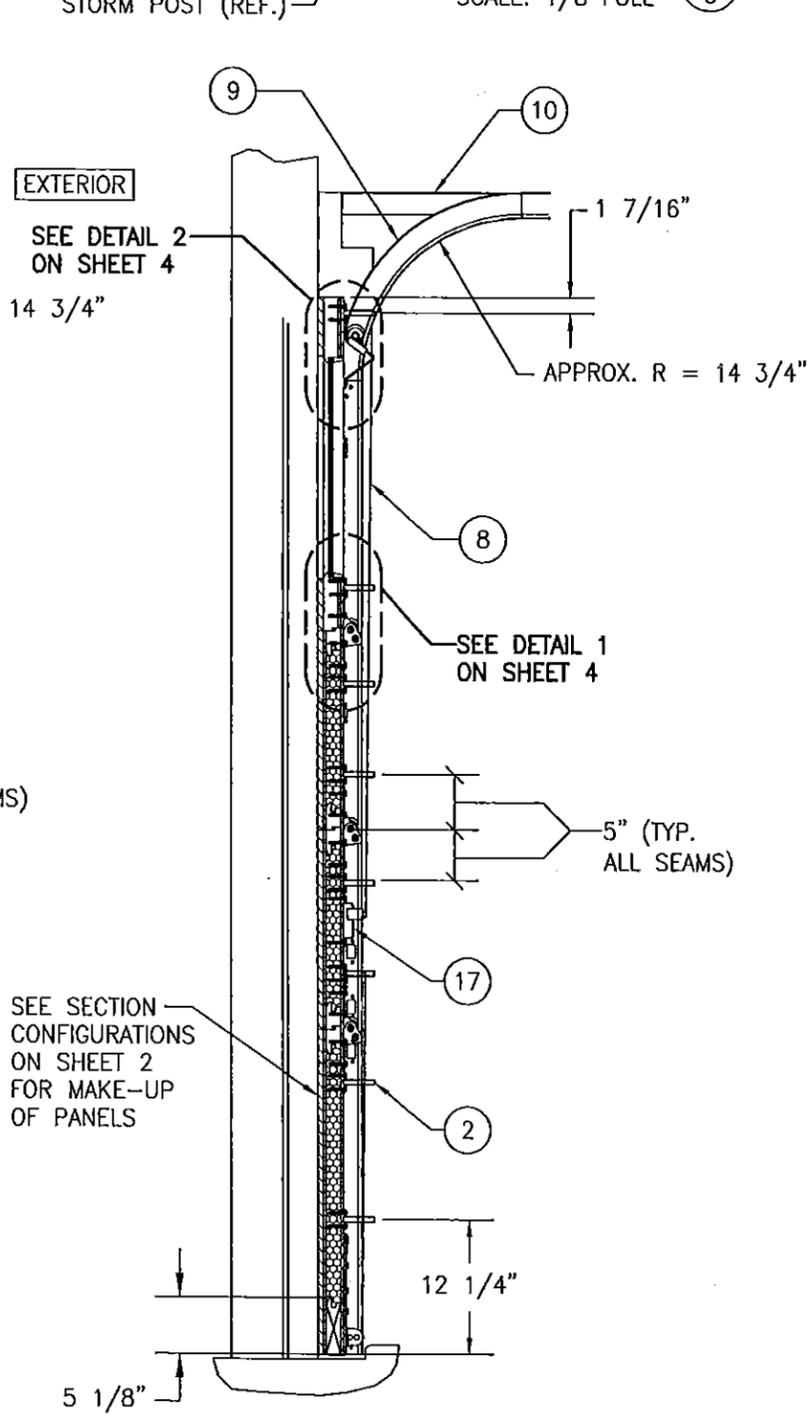
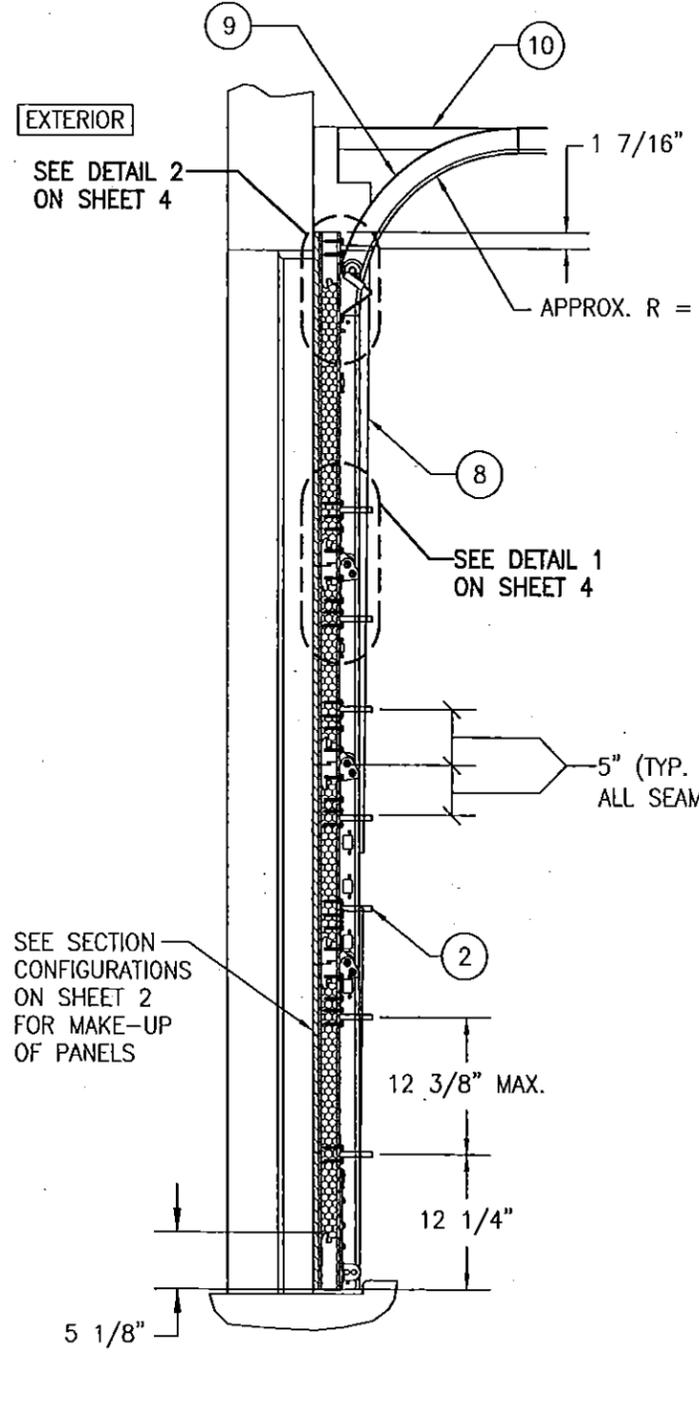
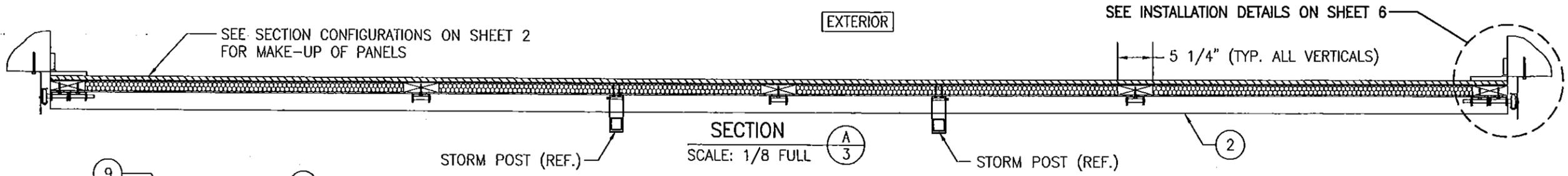


**TYP. V-GROOVE PANEL DETAIL**  
SCALE: N.T.S.

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
Acceptance No. 14-1118-07  
Expiration Date 03/18/2020  
By [Signature]  
Miami/Dade Product Control

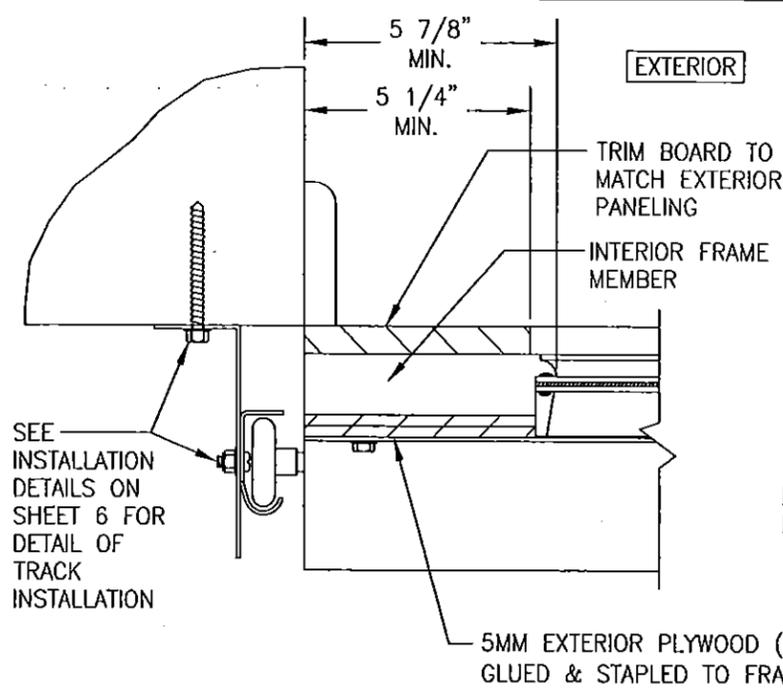
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PLOT: 1-32	DATE: 10/21/08
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE <b>18 FT. WIDE HURRICANE IMPACT WOOD GARAGE DOORS</b>	
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A. (CA 6809)</b>	MANUFACTURER <b>DESIGNER DOORS INTERNATIONAL, LLC</b>
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	702 TROY ST. RIVER FALLS, WI 54022 800-241-0525
CERTIFICATION <b>NOV 12 2014</b>	WARREN W. SCHAEFER P.E. P.E. / NO. 44135
DRAWING NO. <b>1618</b>	REV. <b>B</b>
SHEET NO. <b>2</b>	OF <b>7</b>



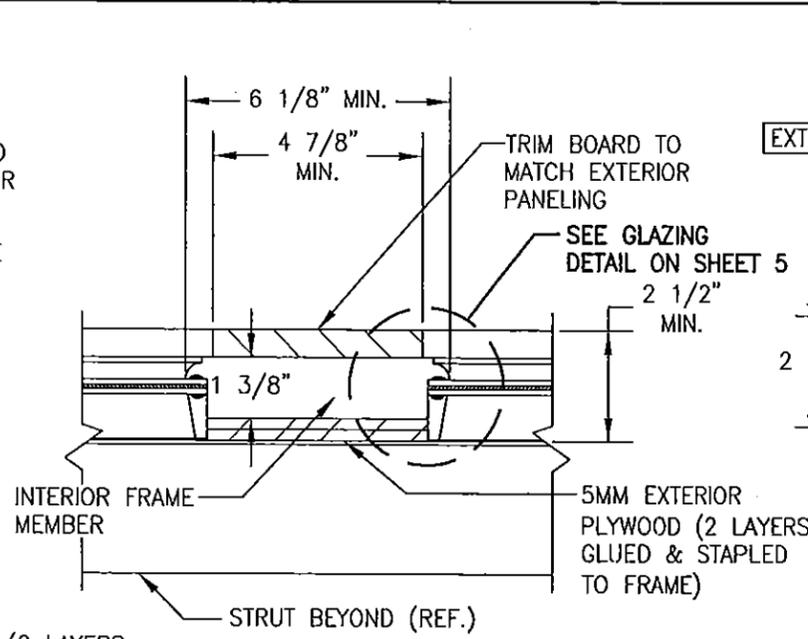


**PRODUCT RENEWED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 14-1116.07  
 Expiration Date 03/18/2020  
 By [Signature]  
 Miami Trade Product Control

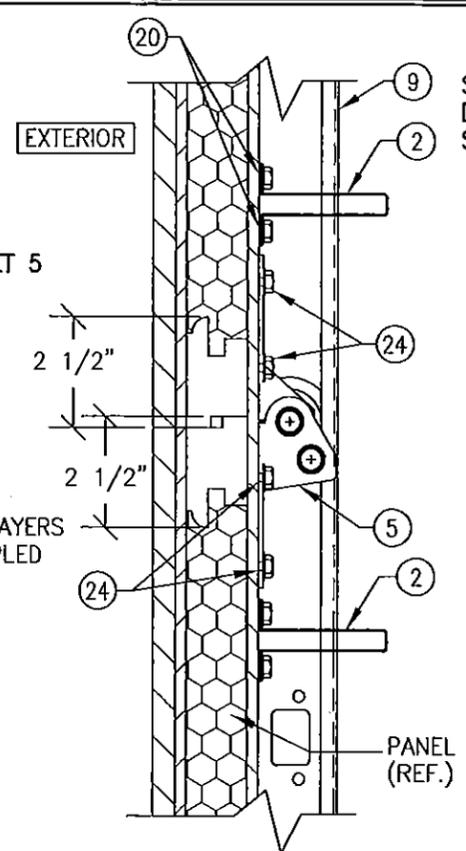
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DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE <b>18 FT. WIDE HURRICANE IMPACT WOOD GARAGE DOORS</b>	
MANUFACTURER <b>DESIGNER DOORS INTERNATIONAL, LLC</b>	702 TROY ST. RIVER FALLS, WI 54022 800-241-0525
CONSULTANTS <b>W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A. (CA 6809)</b>	7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424
CERTIFICATION <b>NOV 12 2008</b>	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. <b>1618</b>	REV. <b>B</b>
SHEET NO. <b>3 OF 7</b>	



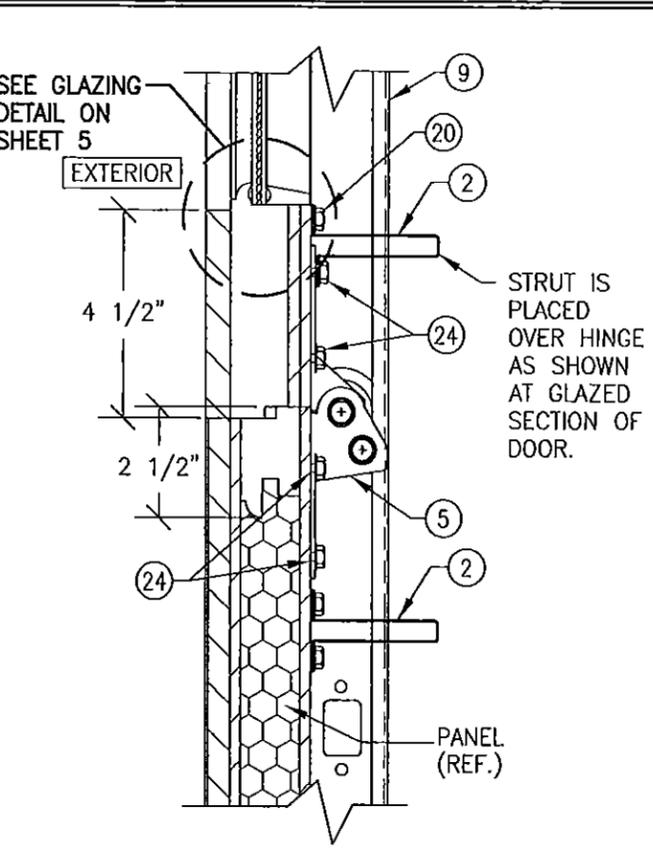
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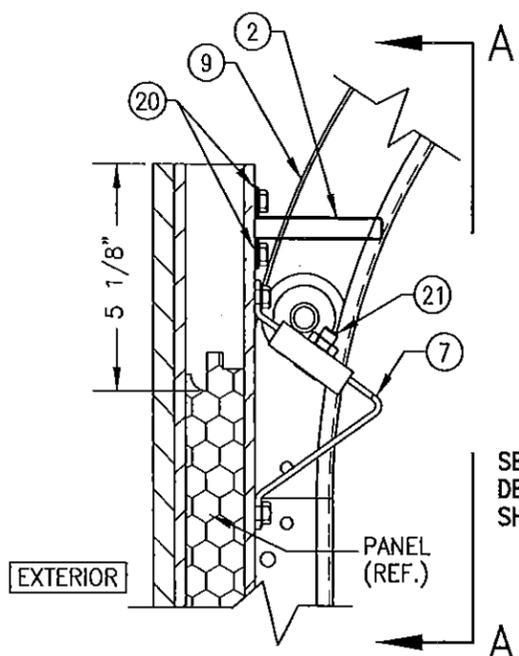
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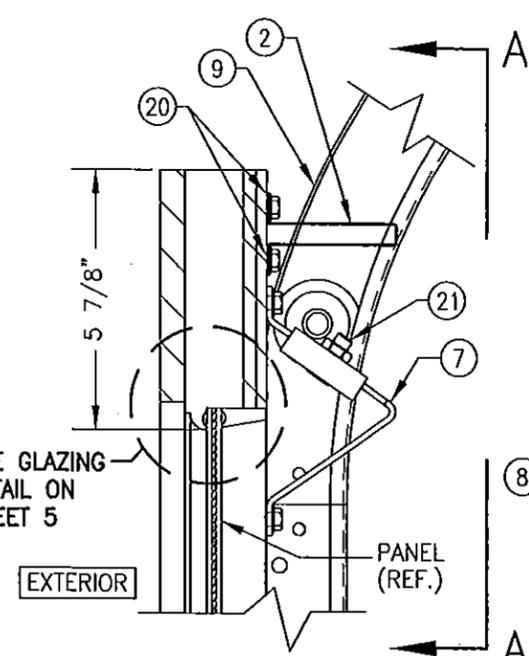
DETAIL 1  
(UN-GLAZED CONDITION)



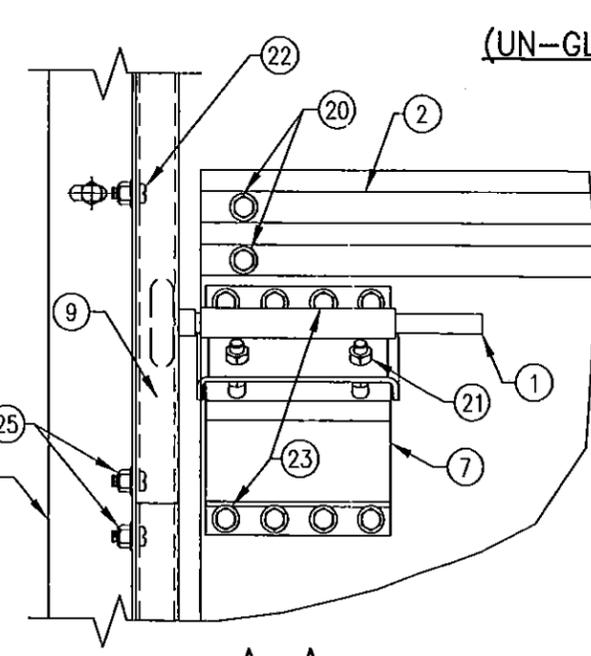
DETAIL 1  
(GLAZED CONDITION)



DETAIL 2  
(UN-GLAZED CONDITION)

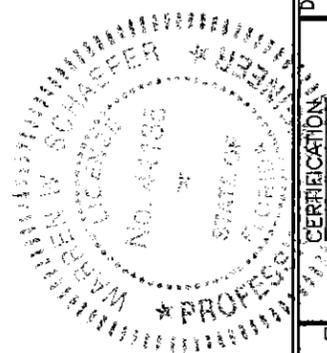


DETAIL 2  
(GLAZED CONDITION)

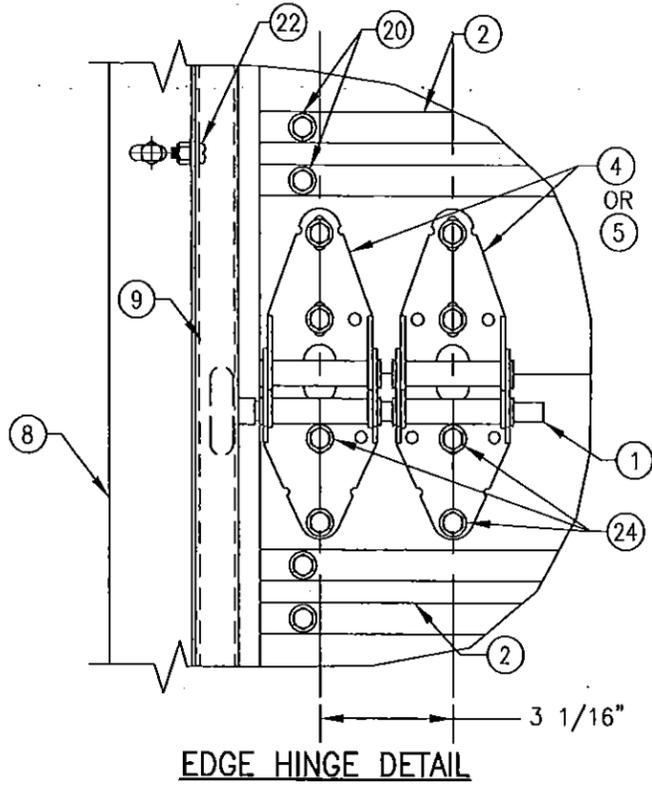


DETAIL 3

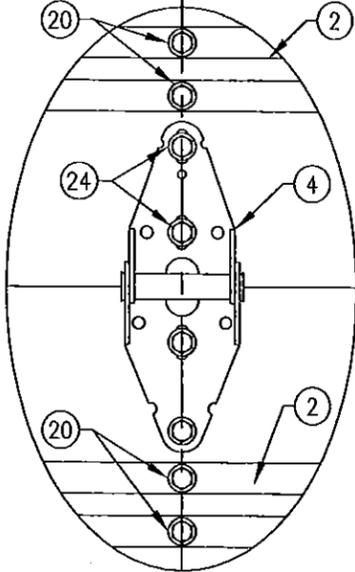
PRODUCT RENEWED  
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Expiration Date 03/10/2020  
By *[Signature]*  
Miami Dade Product Control



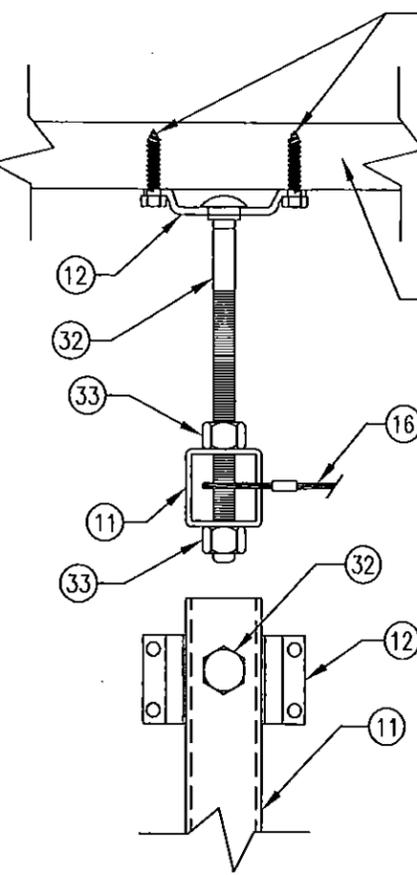
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=4		DATE: 10/21/08	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE: 18 FT. WIDE HURRICANE IMPACT WOOD GARAGE DOORS			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: DESIGNER DOORS INTERNATIONAL, LLC	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		702 TROY ST. RIVER FALLS, WI 54022 800-241-0525	
CERTIFICATION: NOV 12 2014		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO.	REV.		
1618	B		
SHEET NO.			
4 OF 7			



EDGE HINGE DETAIL



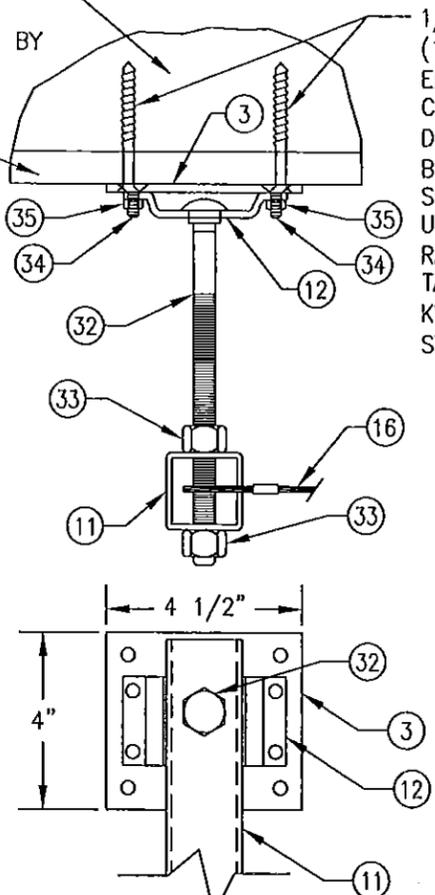
MIDDLE HINGE DETAIL



STORM POST TOP END INSTALLATION DETAIL  
(INTO WOOD SUBSTRATE)

5/16" X 1 1/2" LAG BOLTS (1 3/8" EMBED) (4 PER BRACKET)

WOOD SUBSTRATE BY OTHERS (MIN. 1 1/2" THICK & G=MIN. 0.55) TO BE DESIGNED & SECURED BY OTHERS AS REQ'D TO SUPPORT END LOAD FROM STORM POST.

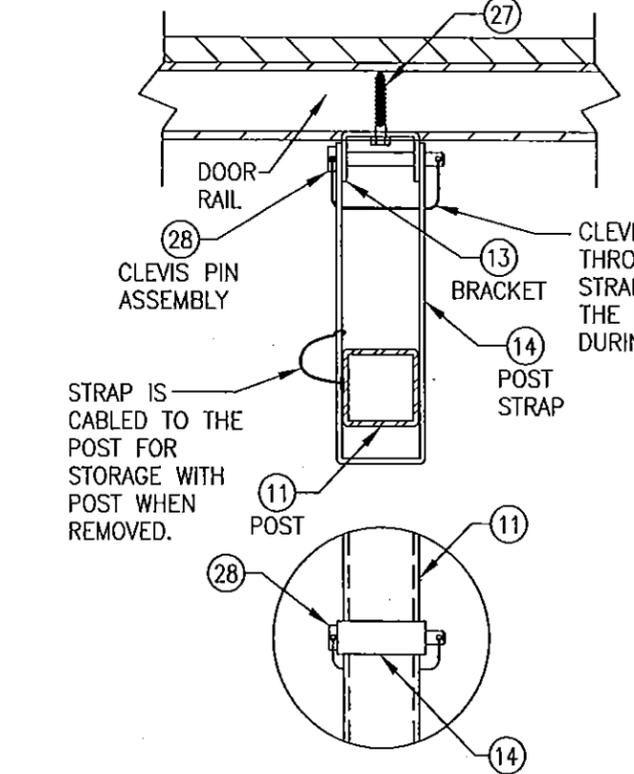


STORM POST TOP END INSTALLATION DETAIL  
(INTO CONCRETE SUBSTRATE)

MIN. 2500 PSI CONCRETE SUBSTRATE BY OTHERS

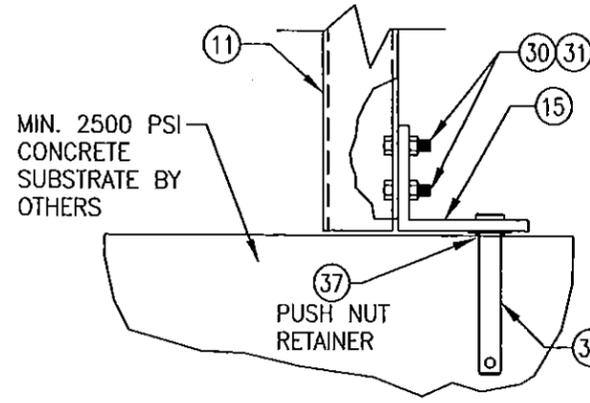
OPTIONAL WOOD PLATE (THICKNESS AS REQ'D)

1/4" CONCRETE SCREWS (1 3/4" MIN. CONCRETE EMBED & 2 1/2" MIN. CONCRETE EDGE DISTANCE) (4 PER BRACKET) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ITW RAMSET/RED HEAD TAPCONS OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).



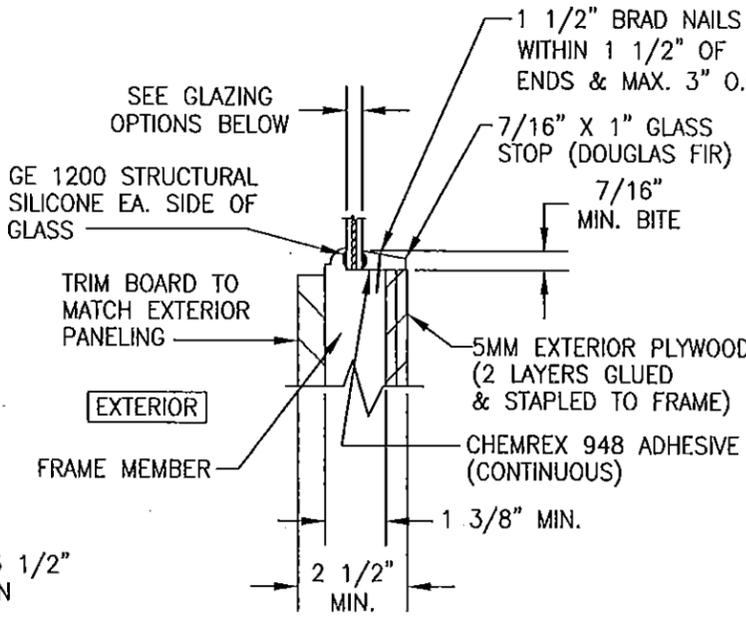
STORM POST INTERMEDIATE BRACKET DETAIL

(1 BRACKET IS LOCATED AT EACH DOOR PANEL SEAM LOCATION; 3 TOTAL PER BAR)



STORM POST BOTTOM END INSTALLATION DETAIL

PIN IS SECURED TO THE POST FOOT ANGLE VIA THE PUSH NUT RETAINER SHOWN SO PIN STAYS WITH THE POST DURING STORAGE.



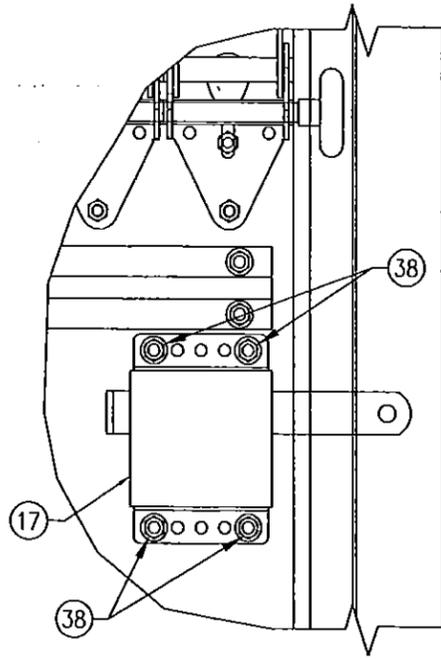
GLAZING DETAIL

GLAZING OPTIONS:  
 OPTION 1: 3/8" LAMINATED GLASS (1/8" AN/0.09 Solutia SAFLEX III G PVB/1/8" AN)  
 OPTION 2: 3/8" LAMINATED GLASS (1/8" AN/0.09 DUPONT BUTACITE PVB/1/8" AN)

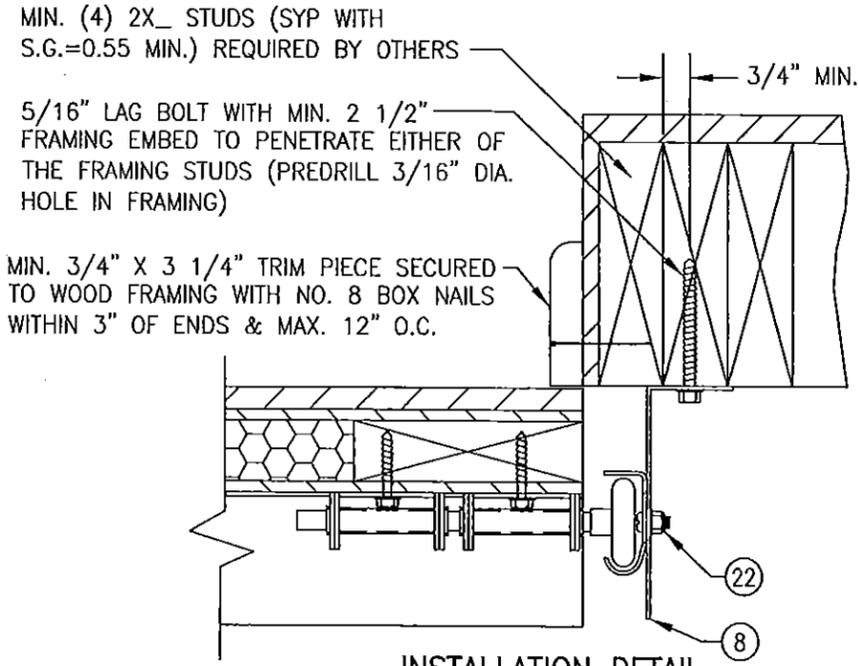
PRODUCT RENEWED as complying with the Florida Building Code  
 Acceptance No 14-1118-07  
 Expiration Date 03/16/2020  
 By *[Signature]*  
 Miami Code Product Control



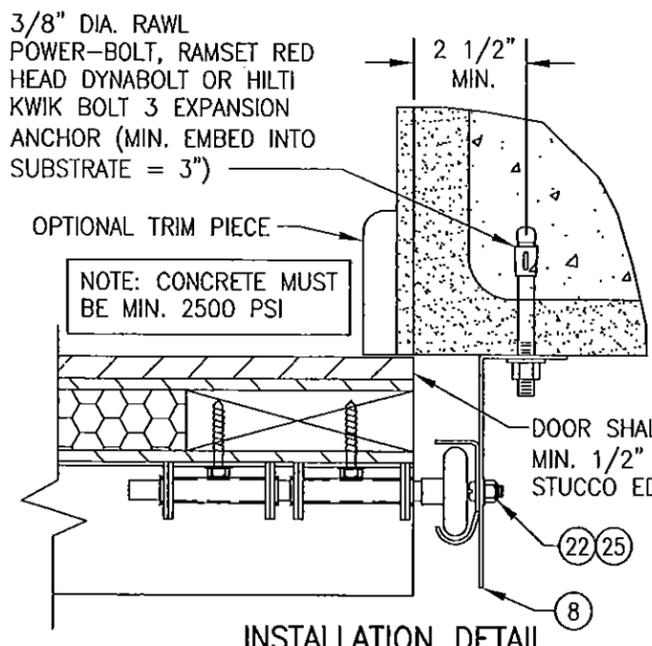
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-4		DATE: 10/21/08	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE: 18 FT. WIDE HURRICANE IMPACT WOOD GARAGE DOORS			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: DESIGNER DOORS INTERNATIONAL, LLC	
7480 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418		702 TROY ST., RIVER FALLS, WI 54022	
PHONE: 561-744-3424		800-241-0525	
CERTIFICATION NOV 12 2014 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1618		REV. B	
SHEET NO. 5 OF 7			



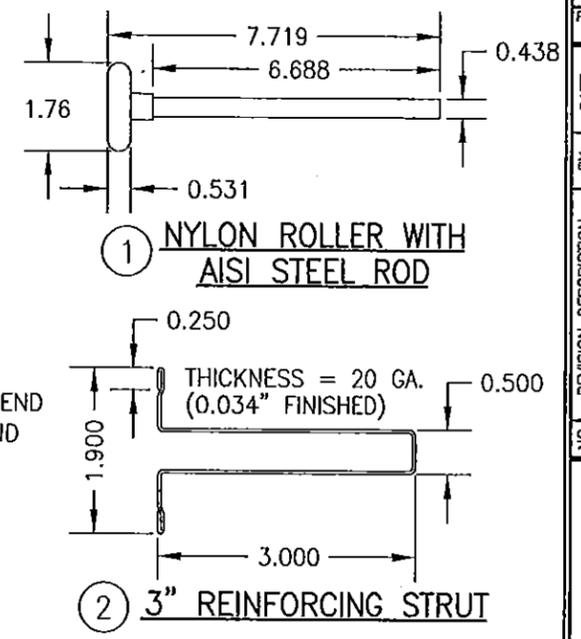
**SIDE LOCK DETAIL**  
(MAY BE LOCATED AT EITHER SIDE OF DOOR)



**INSTALLATION DETAIL DIRECT TO WOOD FRAMING**

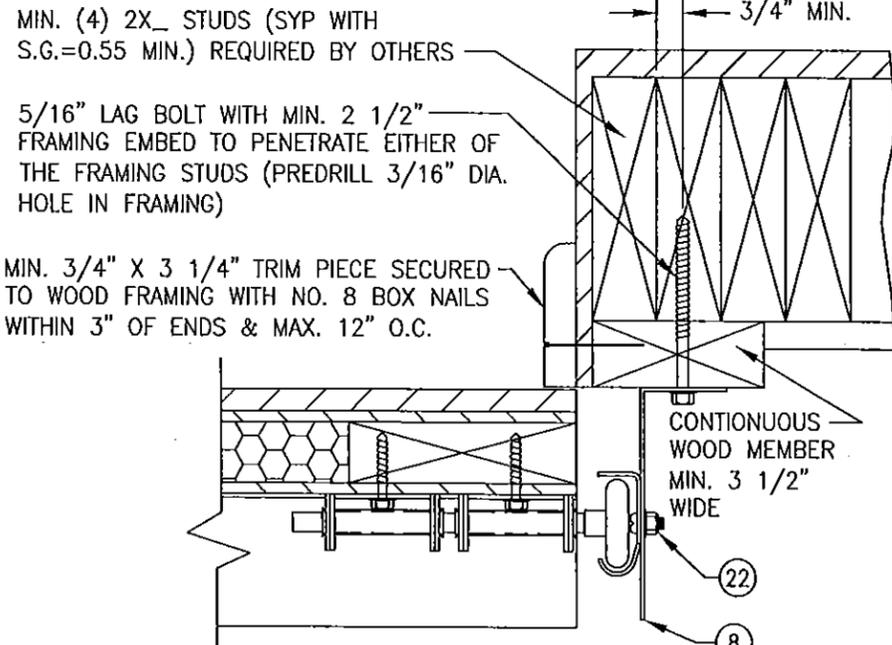


**INSTALLATION DETAIL DIRECT TO FILLED BLOCK OR SOLID CONCRETE**

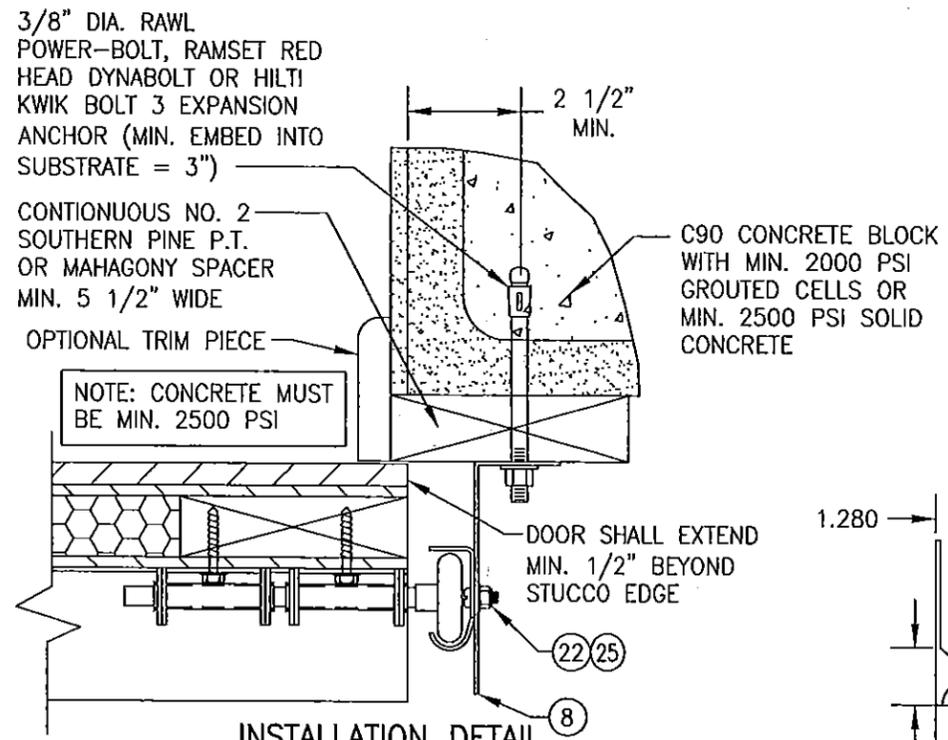


**1 NYLON ROLLER WITH AISI STEEL ROD**

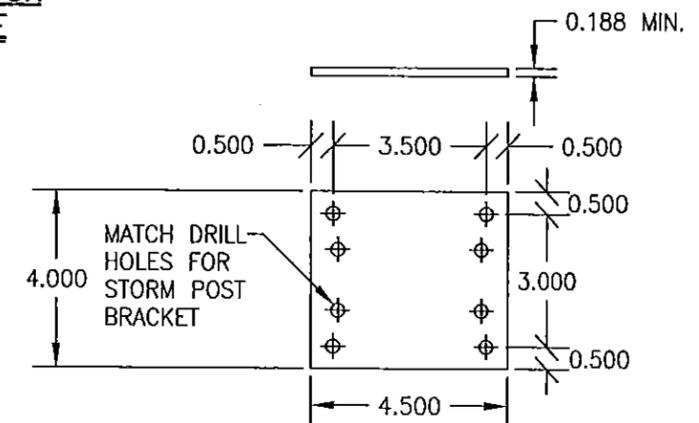
**2 3" REINFORCING STRUT**



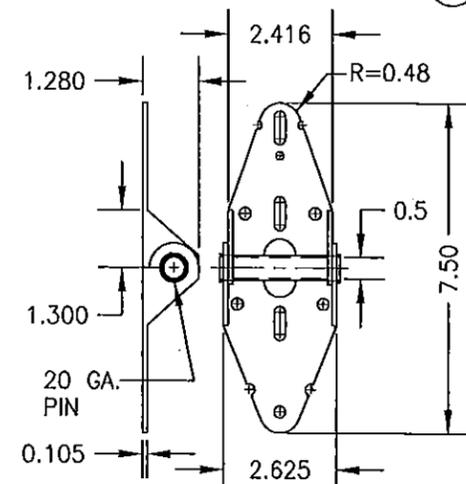
**INSTALLATION DETAIL SHIMMED TO WOOD FRAMING**



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

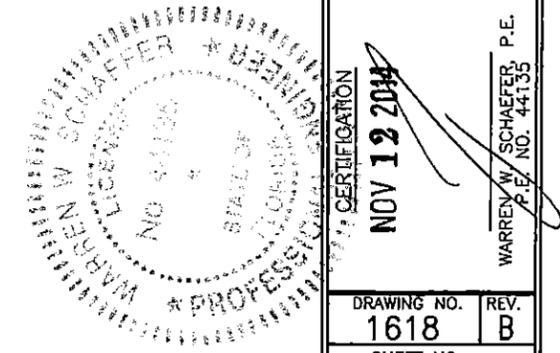


**3 ADAPTER PLATE**



**4 SINGLE PIN HINGE**

**PRODUCT RENEWED**  
as complying with the Florida Building Code  
Acceptance No 19-1118-07  
Expiration Date 02/18/2020  
By *[Signature]*  
Miami Door Product Control

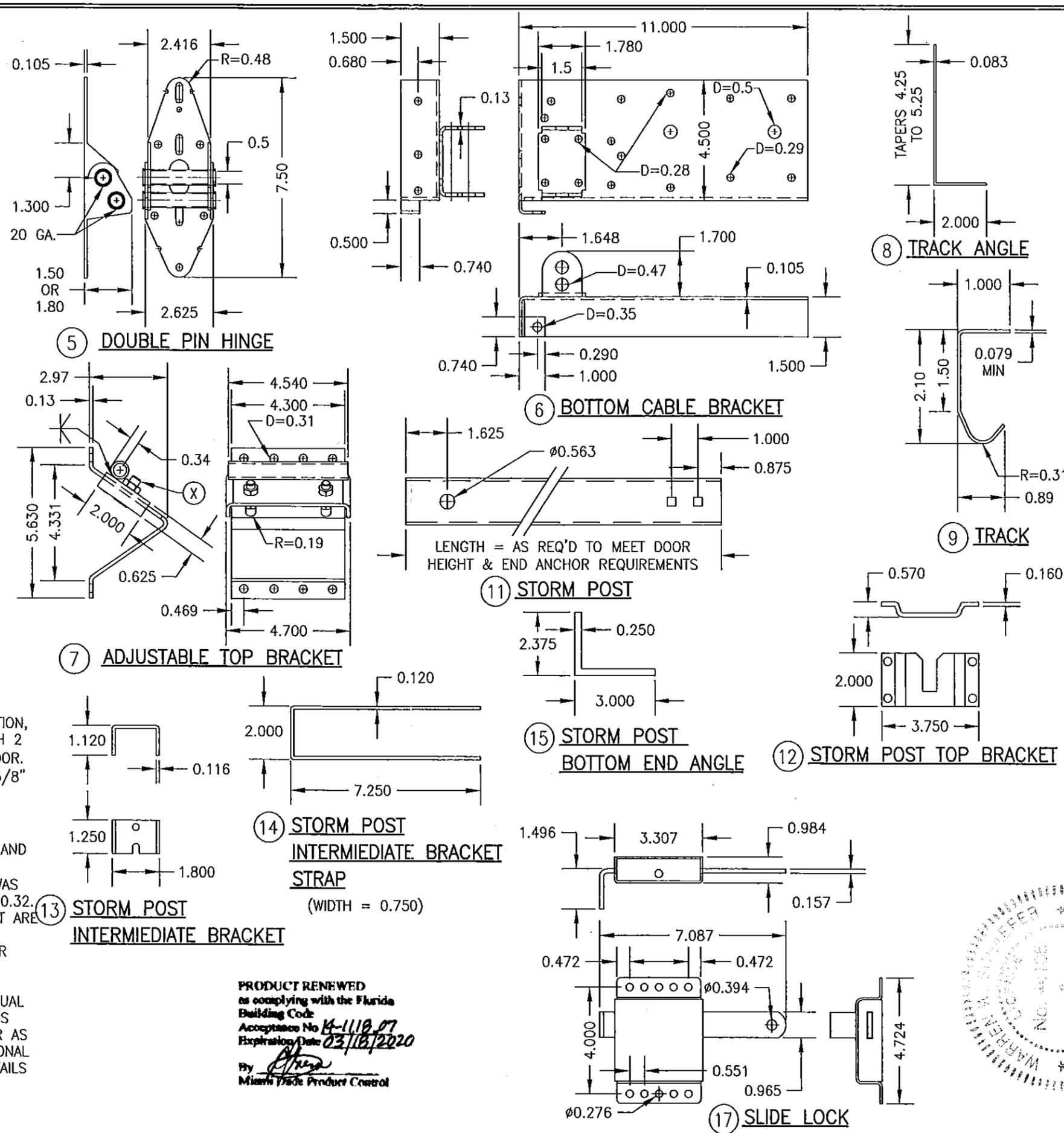


DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=4		DATE: 10/21/08	
NO.	REVISION DESCRIPTION	DATE	BY
DRAWING TITLE: 18 FT. WIDE HURRICANE IMPACT WOOD GARAGE DOORS			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: DESIGNER DOORS INTERNATIONAL, LLC	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		702 TROY ST. RIVER FALLS, WI 54022 800-241-0525	
CERTIFICATION: NOV 12 2014		P.E. NO. 44135	
DRAWING NO.	REV.	SHEET NO.	
1618	B	6 OF 7	

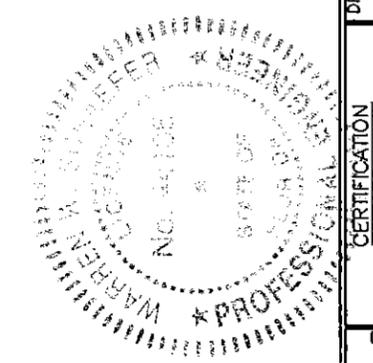
ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
<b>PARTS &amp; HARDWARE</b>		
1	ROLLER	NYLON W/AISI 1045 STL. ROD
2	3" REINFORCING STRUT	GALV. 80 KSI STEEL
3	ADAPTER BRACKET	MIN. 3/16" A-36 STEEL
4	SINGLE ROLLER HINGE	GALV. 36 KSI STEEL
5	DOUBLE ROLLER HINGE	GALV. 36 KSI STEEL
6	BOTTOM CABLE BRACKET	GALV. 36 KSI STEEL
7	ADJUSTABLE TOP BRACKET	GALV. 36 KSI STEEL
8	TRACK ANGLE (TAPERED)	GALV. 33 KSI STEEL
9	VERTICAL TRACK (HORIZ. TRACK SIMILAR)	GALV. 33 KSI STEEL
10	HORIZONTAL REINFORCEMENT ANGLE	2" X 2" X 13GA GALV. 33 KSI STEEL
11	STORM POST	1 3/4" X 1 3/4" X 0.105" THICK GALV. 50 KSI STEEL
12	STORM POST TOP BRACKET	A-36 STEEL
13	STORM POST INTERMEDIATE BRACKET	A-36 STEEL
14	STORM POST INTERMEDIATE BRACKET STRAP	A-36 STEEL
15	STORM POST BOTTOM END ANGLE	A-36 STEEL
16	POST CABLE	#0.125" GALV. OR S.S.
17	SLIDE LOCK	STEEL 1018 ZINC PLATED
<b>MISCELLANEOUS FASTENERS</b>		
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	2 PER TRACK ( FIELD DRILLED & INSTALLED)
23	1/4 X 1 1/2 HEX WASHER HEAD LAG SCREW	8 PER TOP BRACKET
24	1/4 X 1 1/2 HEX WASHER HEAD LAG SCREW	4 PER HINGE
25	1/4-20 X 5/8 RIB NECK TRACK BOLT	5 PER TRACK
26	1/4 X 1 1/2 HEX WASHER HEAD LAG SCREW	10 PER BOTTOM CABLE BRACKET
27	1/4 X 1 1/2 HEX WASHER HEAD LAG SCREW	2 PER STORM POST INTERMEDIATE BRACKET
28	#0.031 X 2 1/2 CLEVIS PIN/CABLE ASSEMBLY	1 PER BRACKET; McMASTER CARR #98416AD17
30	5/16-18 X 3/4 CARRIAGE BOLT	2 PER BOTTOM BRACKET CONNECTION
31	5/16-18 SERRATED FLANGE NUT	2 PER BOTTOM BRACKET CONNECTION
32	1/2" X 8" CARRIAGE BOLT (GRADE 5)	1 PER STORM POST TOP ASSEMBLY
33	1/2" SERRATED FLANGE NUT	2 PER STORM POST TOP ASSEMBLY
34	1/4-20 X 3/4" F.H. MACHINE SCREW	2 PER ADAPTER PLATE
35	1/4-20 X SERRATED FLANGE NUT	2 PER ADAPTER PLATE
36	#1/2" X 3 1/2" CLEVIS PIN	1 PER STORM POST BOTTOM END ANGLE
37	1/2" PUSH NUT RETAINER	1 PER BRACKET; McMASTER CARR #98807AD34
38	1/4 X 1 1/2 HEX WASHER HEAD LAG SCREW	4 PER SLIDE LOCK

**PANEL NOTES:**

- HORIZONTAL & VERTICAL FRAME MEMBERS ARE EDGE COPED, BUTTED TOGETHER & GLUED WITH TYPE 1 WOOD GLUE. IN ADDITION, THE VERTICAL MEMBERS ARE SCREWED TO THE HORIZONTAL WITH 2 NO. 8 X 2" SCREWS ANGLED FROM THE BACK FACE OF THE DOOR.
- 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.
- 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.
- 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.
- ALL INTERIOR FRAME MEMBERS SHALL BE NO. 2 DOUGLAS FIR WITH G = 0.49.
- 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.



PRODUCT RENEWED  
 as complying with the Florida  
 Building Code  
 Acceptance No 14-1118-07  
 Expiration Date 03/18/2020  
 By [Signature]  
 Miami Trade Product Control



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DRAWING NO. 1618	REV. B
SHEET NO. <b>7 OF 7</b>	