



MIAMI-DADE COUNTY
BUILDING AND NEIGHBORHOOD COMPLIANCE DEPARTMENT (BNC)
BOARD AND CODE ADMINISTRATION DIVISION

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/building

NOTICE OF ACCEPTANCE (NOA)

Designer Doors, Inc.
702 Troy St.
River Walls, 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 BNC -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. BNC 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 18'-0" Wide Wood Sectional Garage Door

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 10/21/08, with last revision A1 dated 11/15/10, signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control revision 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 10'-6" wide Glazed Wood Sectional Garage Door was purchased from them in order for this NOA to be valid on any job.

This NOA revises NOA # 08-1224.07 and 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.



Carlos M. Utrera
 104/19/11

NOA No. 10-1119.02
Expiration Date: March 18, 2015
Approval Date: April 28, 2011
 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 10/21/08, with last revision A1 dated 11/15/10, signed and sealed by Warren W. Schaefer, P.E.

B. TESTS

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 01/13/10, 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 08/18/09, signed and sealed by Joseph A. Reed, P.E.
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 08/21/08, signed and sealed by Vinu J. Abraham, P.E.
"Submitted under NOA # 08-1224.07"

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

1. Anchoring and stress calculations, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 12/17/08, signed and sealed by Warren W. Schaefer, P.E.

D. QUALITY ASSURANCE

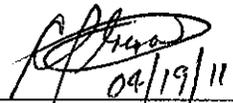
1. Miami-Dade Building and Neighborhood Compliance Department (BNC)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **10-0922.09** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" approved on 12/23/10, expiring on 12/11/11.
2. Notice of Acceptance No. **06-0216.06** issued to **Solutia, Inc.** for their "**Saflex IIIIG**" approved on 05/04/06, expiring on 05/21/11.

F. STATEMENTS

1. Statement letter of conformance to FBC 2007, issued by W.W. Schaefer Engineering & Consulting, P.A., dated 11/15/10, 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 11/15/10, signed and sealed by Warren W. Schaefer, P.E.



04/19/11

Carlos M. Utrera, P.E.

Product Control Examiner

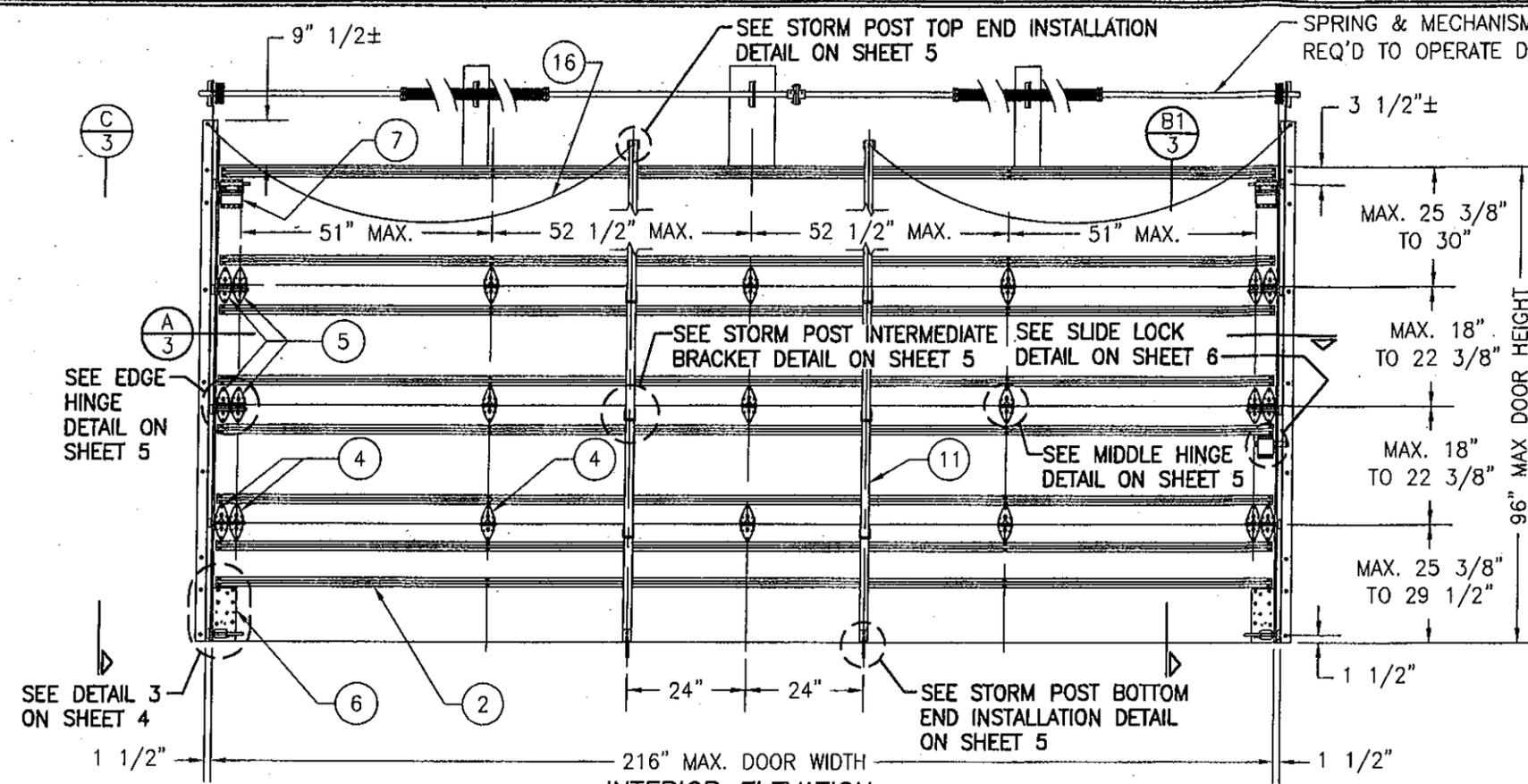
NOA No. 10-1119.02

Expiration Date: March 18, 2015

Approval Date: April 28, 2011

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.A.M.
CHECKED BY: W.W.S.
PLOT: 1-32
DATE: 10/21/08
DATE: 11/15/10



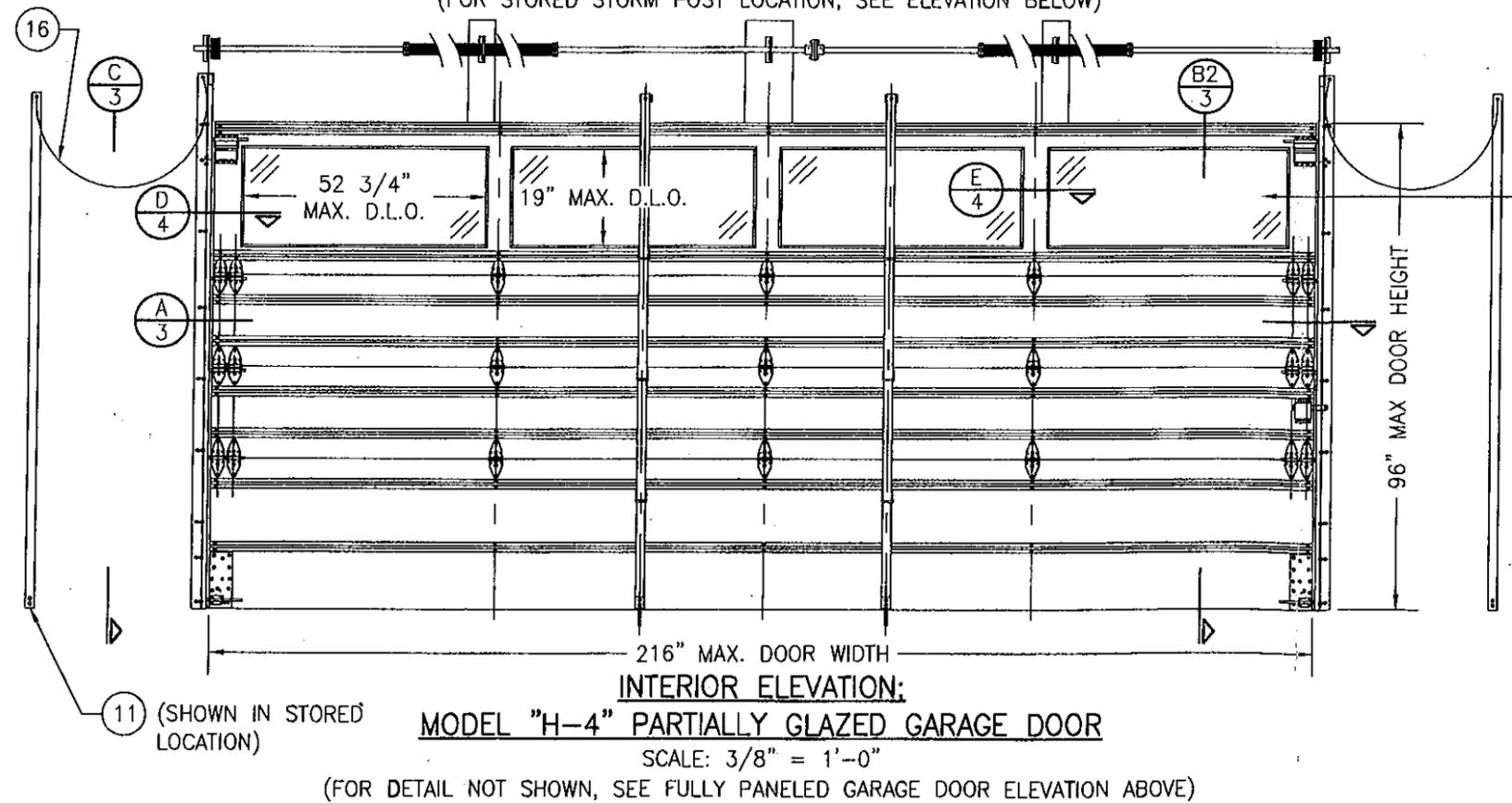
GENERAL NOTES:

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-2D1, 2D2 & 2D3 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 ACROSS 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 REVISED
as complying with the Florida Building Code
Acceptance No. 10-1119.02
Expiration Date 2/21/2015
By: [Signature]
Miami Trade Product Control

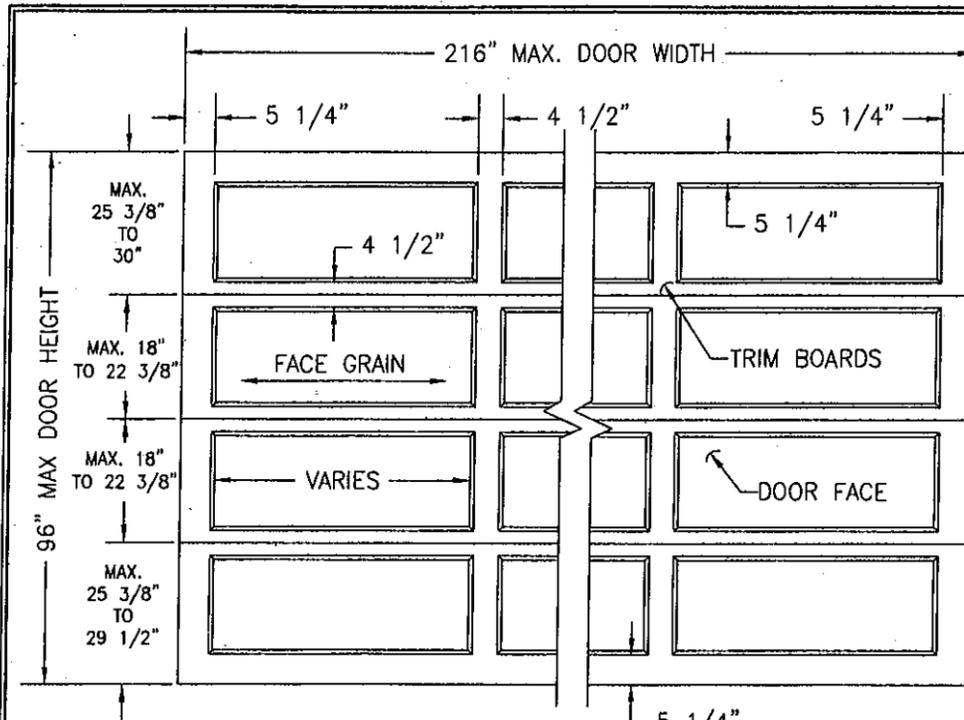


NO.	REVISION DESCRIPTION	DATE	BY
1	ADD DUPONT BULKHEAD CLASS	11/15/10	WWS

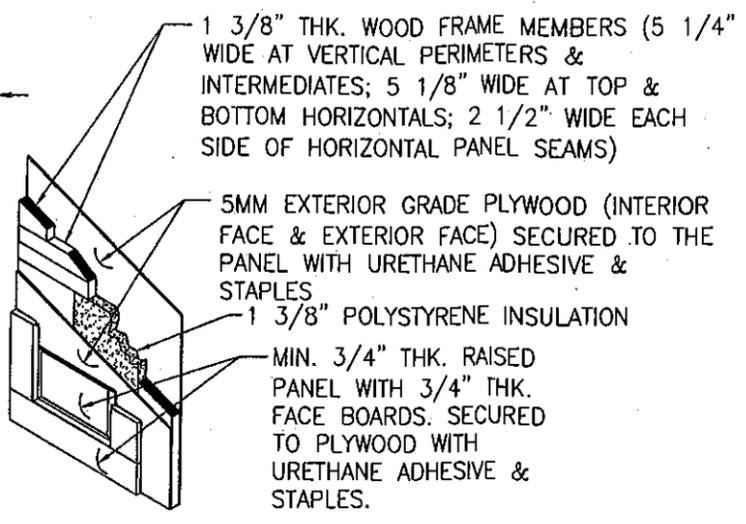
18 FT. WIDE HURRICANE IMPACT WOOD GARAGE DOORS
DESIGNER DOORS, INC.
702 TROY ST.
RIVER FALLS, WI 54022
800-241-0525

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

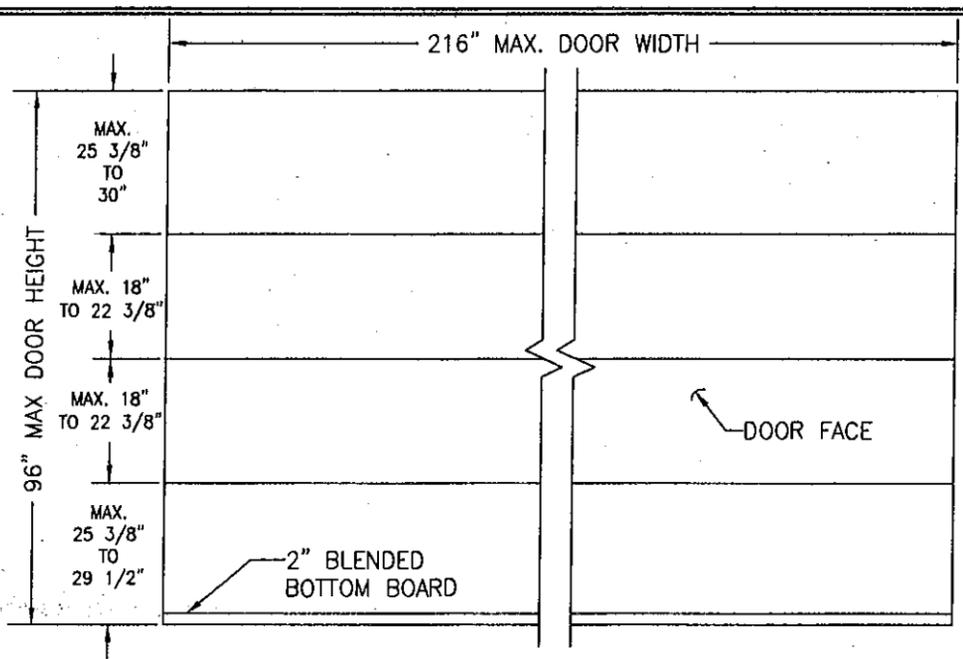
CERTIFICATION
APR 19 2011
DRAWING NO. 1618
REV. A
SHEET NO. 1 OF 7



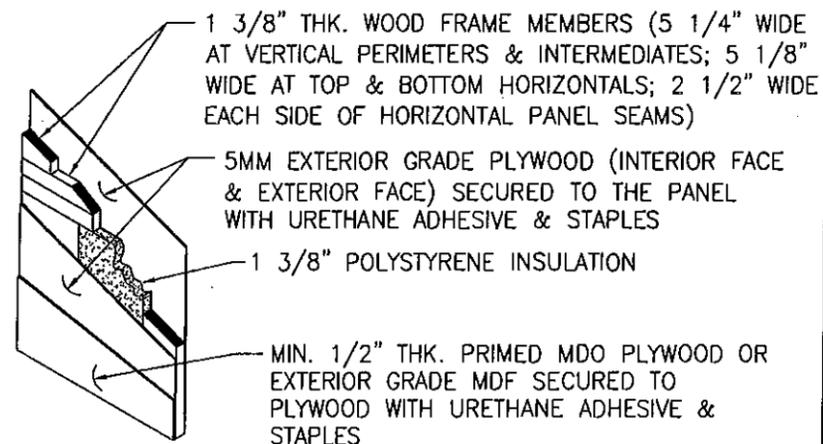
**EXTERIOR ELEVATION:
RAISED PANEL GARAGE DOOR**
SCALE: 3/8" = 1'-0"
(NON-GLAZED DOOR SHOWN, GLAZED DOOR IS SIMILAR)



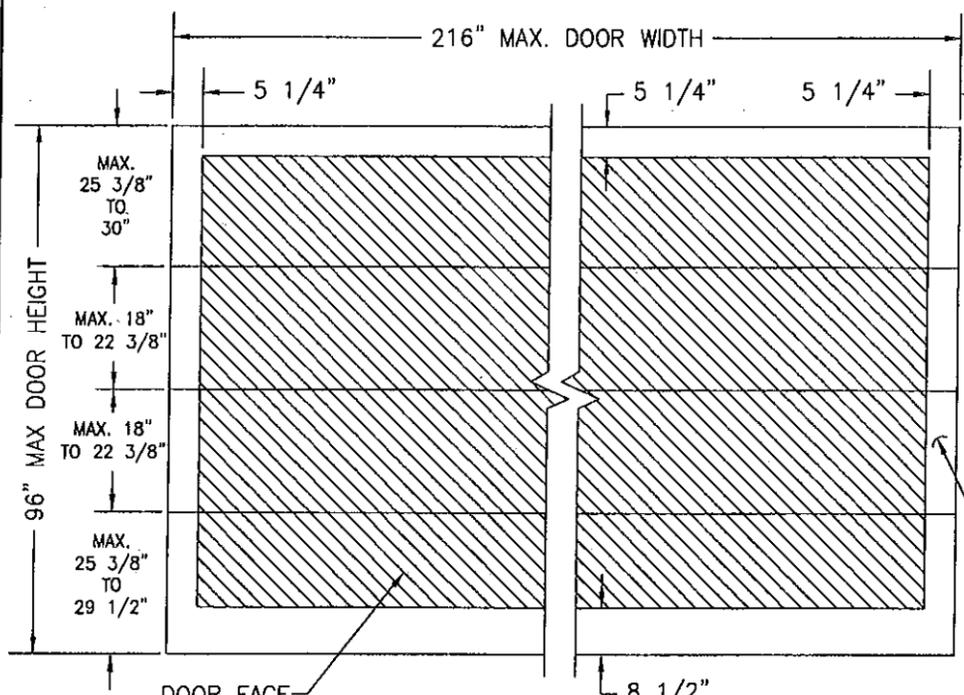
TYP. RAISED PANEL DETAIL
SCALE: N.T.S.



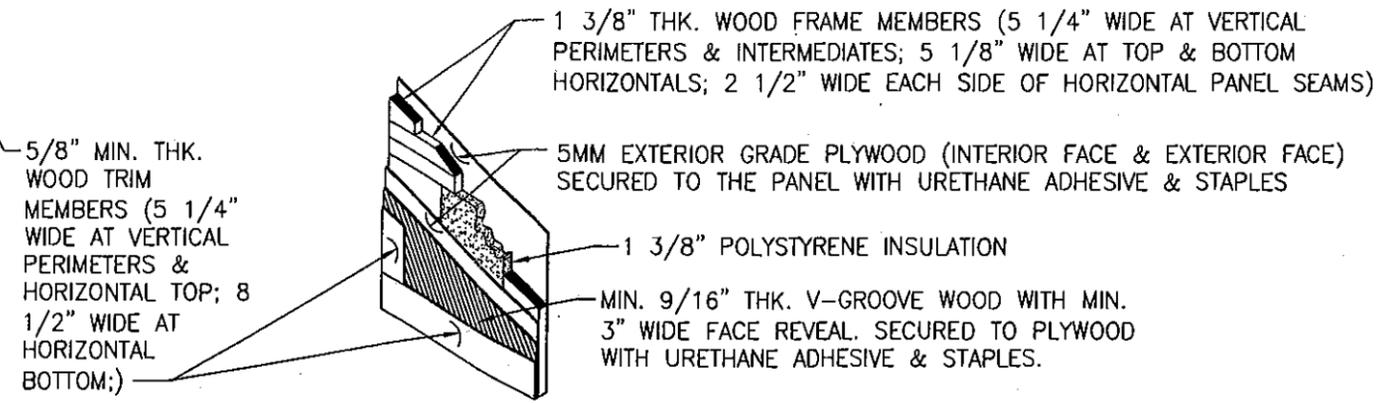
**EXTERIOR ELEVATION:
FLAT PANEL GARAGE DOOR**
SCALE: 3/8" = 1'-0"
(NON-GLAZED DOOR SHOWN, GLAZED DOOR IS SIMILAR)



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)



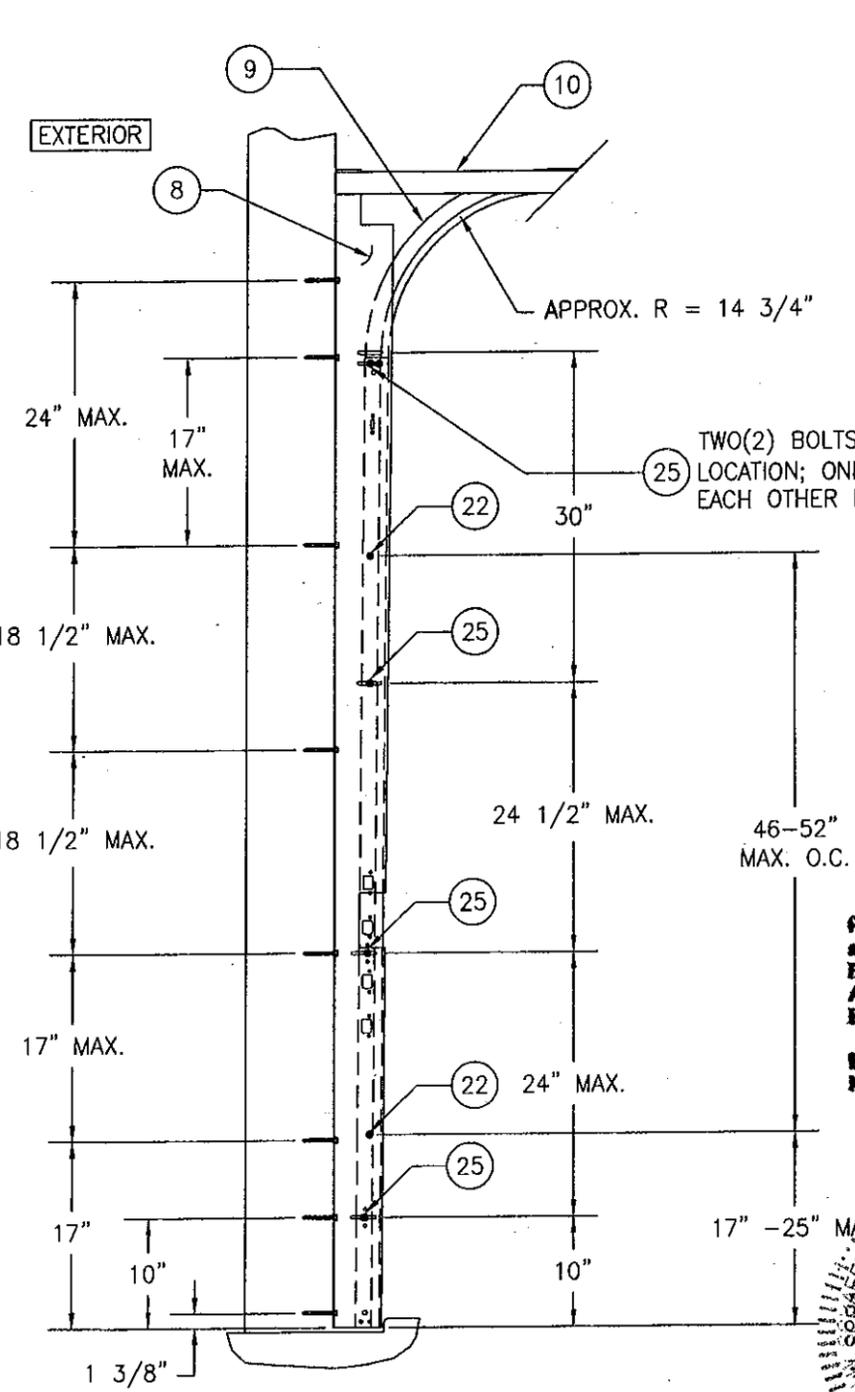
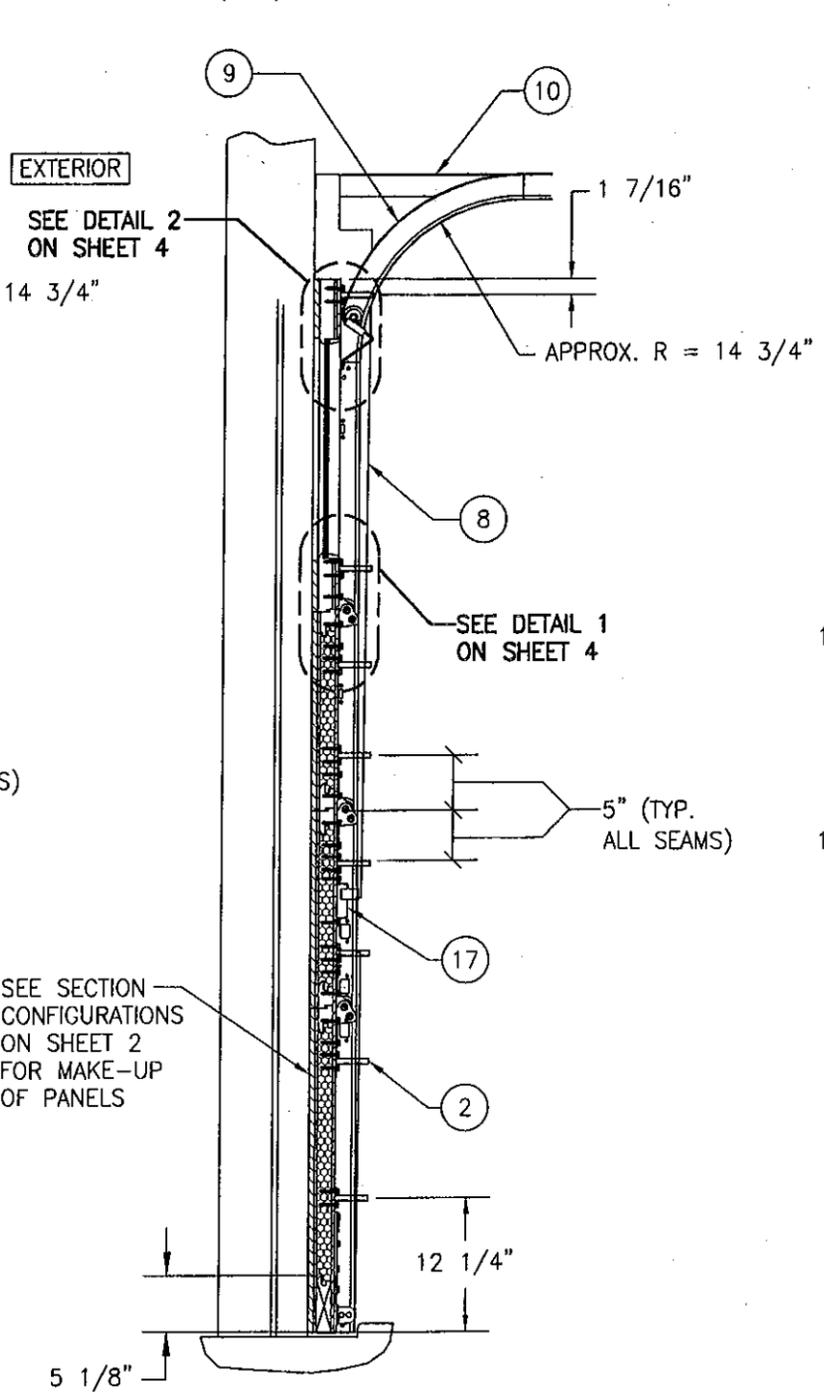
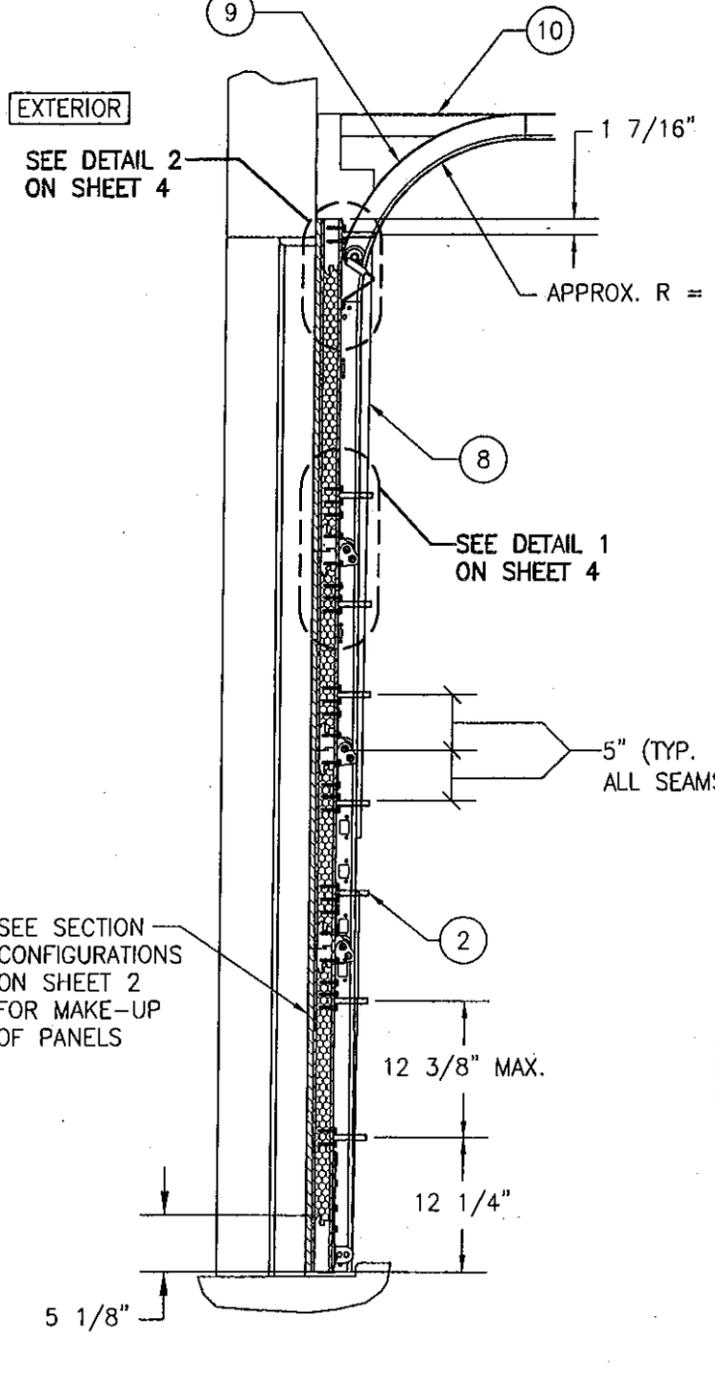
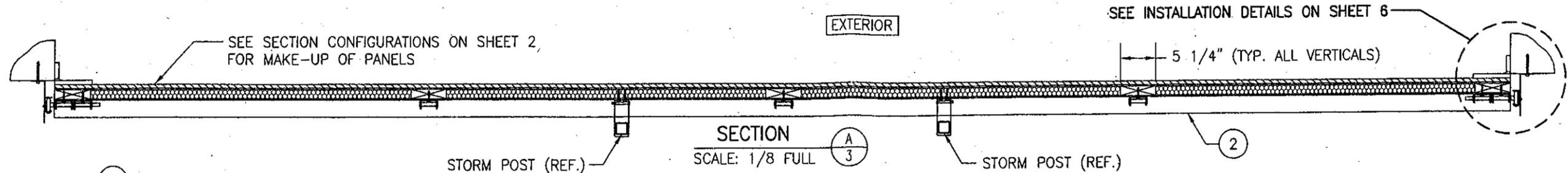
TYP. V-GROOVE PANEL DETAIL
SCALE: N.T.S.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 10-1119.02
Expiration Date 03/18/2015
By [Signature]
Miami Trade Product Control

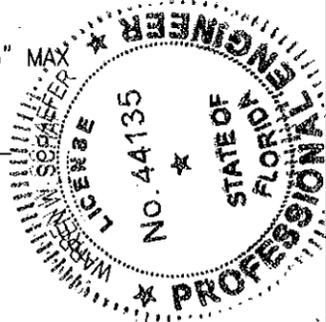


DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-32		DATE: 10/21/08	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE 18 FT. WIDE HURRICANE IMPACT WOOD GARAGE DOORS			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER DESIGNER DOORS, INC.	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		702 TROY ST. RIVER FALLS, WI 54022 800-241-0525	
CERTIFICATION APR 12 2011			
DRAWING NO. 1618		REV. A	
SHEET NO. 2 OF 7			

DRAWN BY:	W.R.M.	CHECKED BY:	W.W.S.
PLOT:	1-16	DATE:	10/21/08
NO.	REVISION DESCRIPTION	BY	DATE



PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 10-1119.02
 Expiration Date 03/18/2015
 By *[Signature]*
 Miami Dade Product Control



DRAWING TITLE
 18 FT. WIDE HURRICANE IMPACT WOOD GARAGE DOORS

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

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

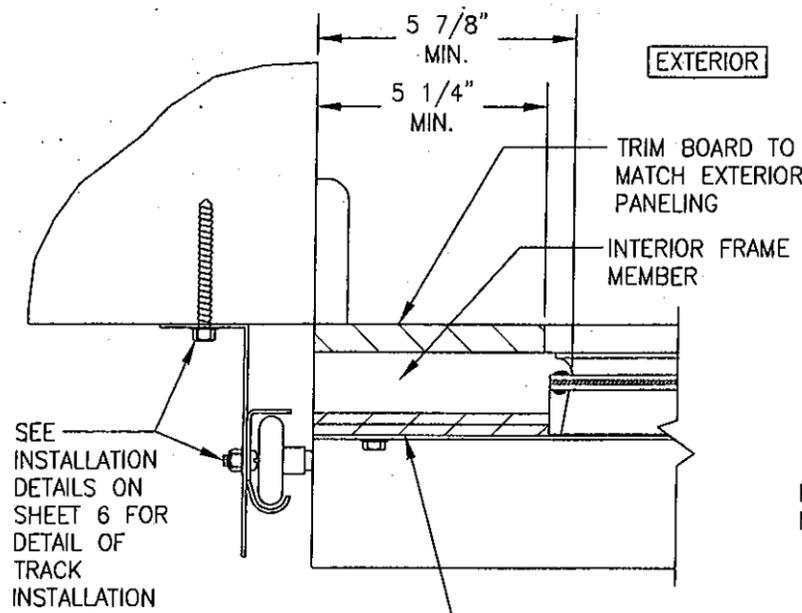
CERTIFICATION
 APR 19 2011
 WARREN W. SCHAEFER, P.E.
 P.E. NO. 44135

DRAWING NO. 1618
REV. A
SHEET NO. 3 OF 7

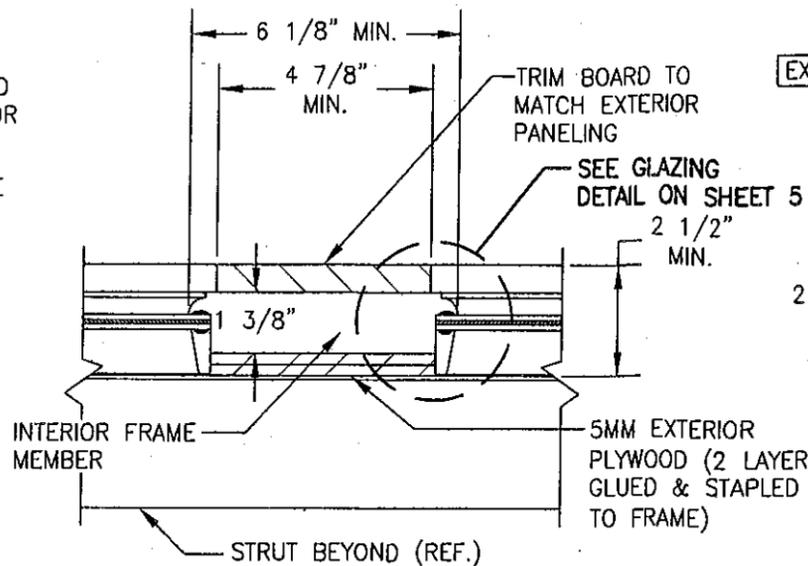
SECTION B1
 SCALE: 1/8 FULL
 (FULLY WOOD DOOR)

SECTION B2
 SCALE: 1/8 FULL
 (GLAZED DOOR)

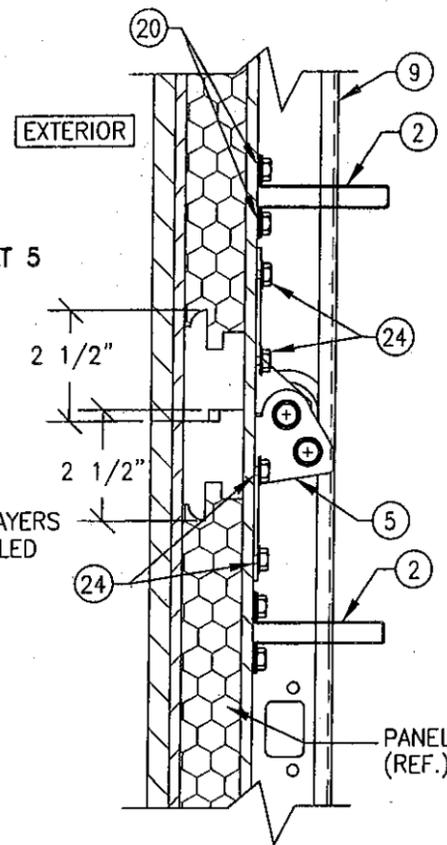
SECTION C
 SCALE: 1/8 FULL



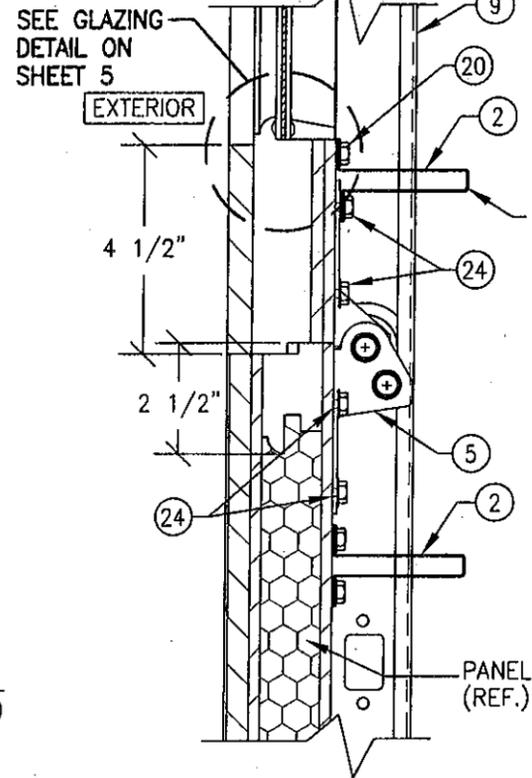
SECTION D
SCALE: 1/4 FULL



SECTION E
SCALE: 1/4 FULL

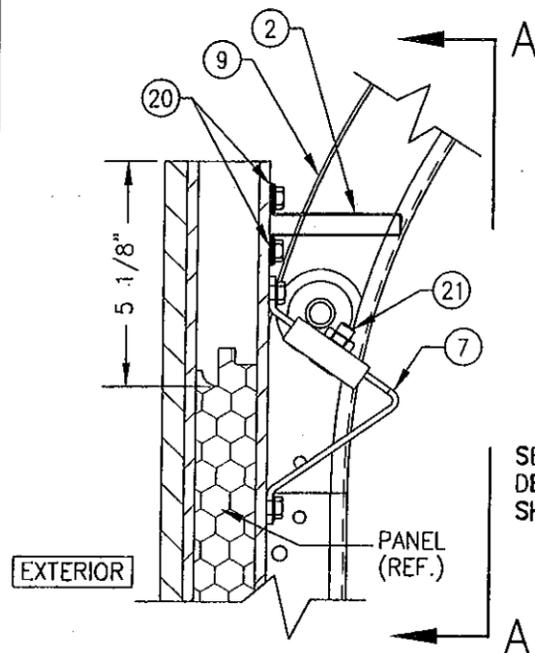


DETAIL 1
(UN-GLAZED CONDITION)

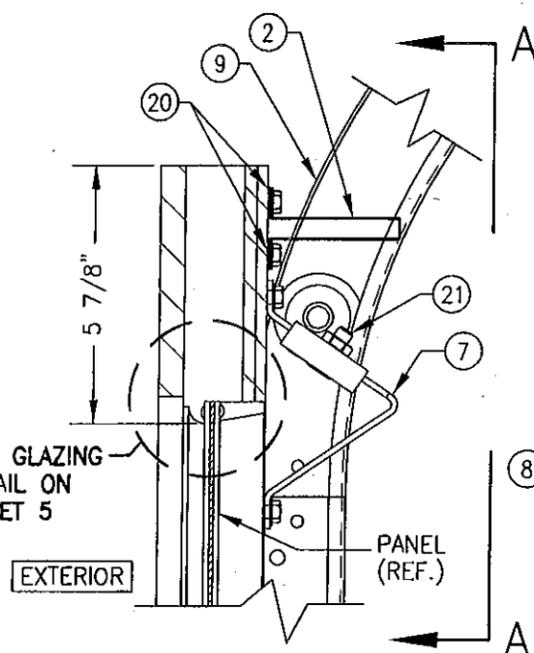


DETAIL 1
(GLAZED CONDITION)

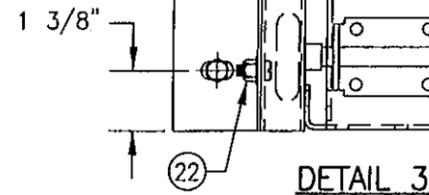
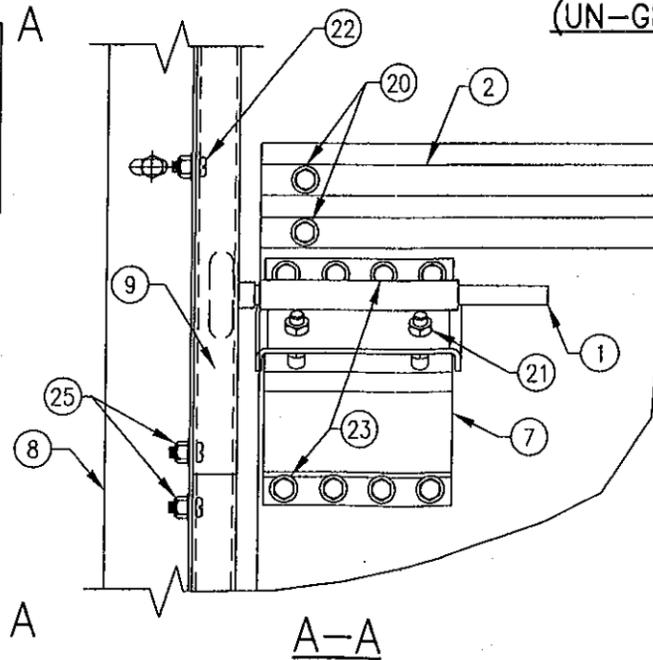
STRUT IS PLACED OVER HINGE AS SHOWN AT GLAZED SECTION OF DOOR.



DETAIL 2
(UN-GLAZED CONDITION)

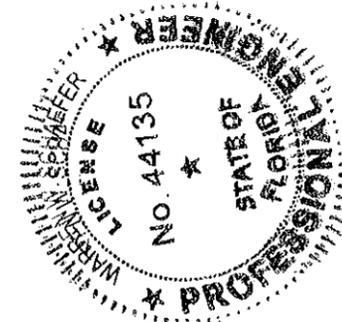


DETAIL 2
(GLAZED CONDITION)

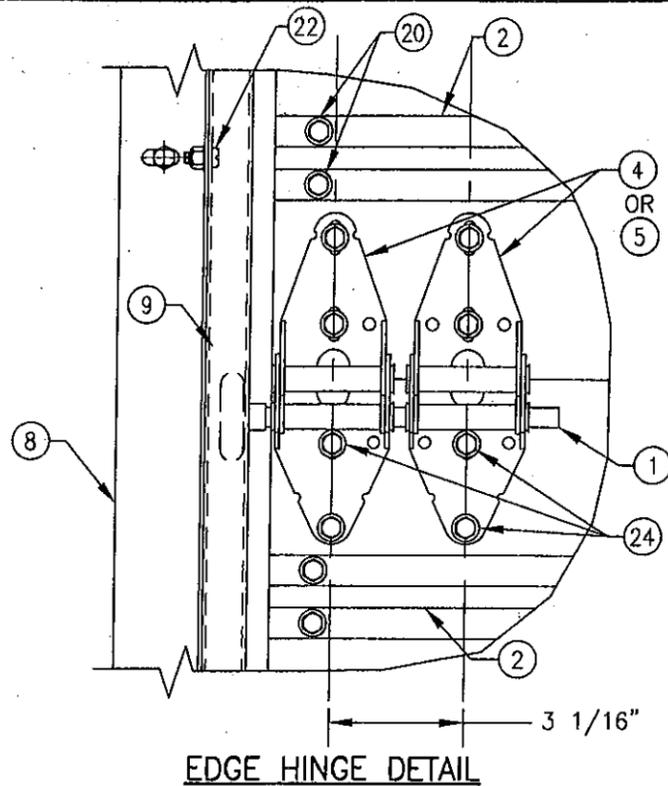


DETAIL 3

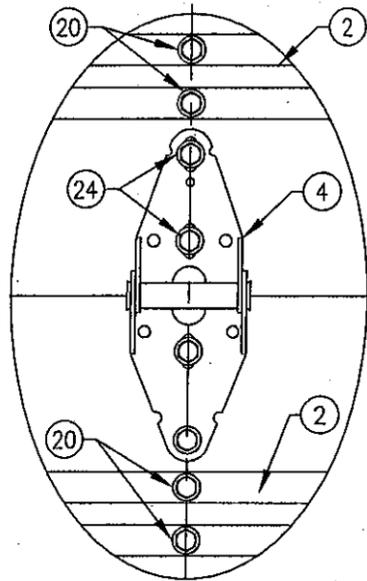
PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 10-1119.02
Expiration Date 03/18/2015
By *[Signature]*
Miami Dade Product Control



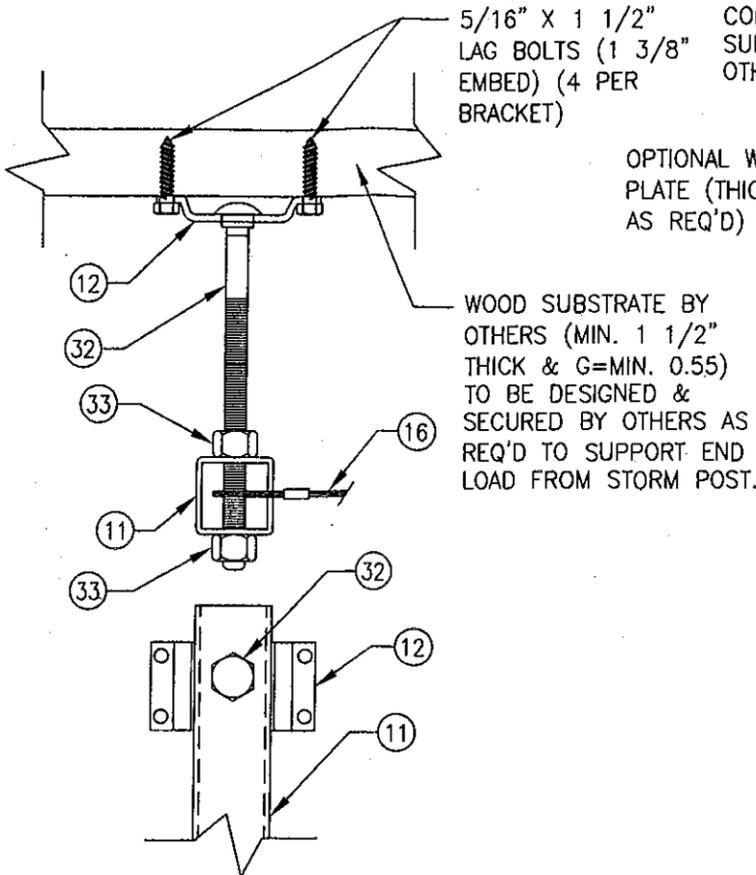
DRAWN BY: W.R.N.	CHECKED BY: W.W.S.
PLOT: 1=4	DATE: 10/21/08
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE 18 FT. WIDE HURRICANE IMPACT WOOD GARAGE DOORS	
CONSULTANTS W. SCHAEFFER ENGINEERING & CONSULTING, P.A. (CA 6809)	MANUFACTURER DESIGNER DOORS, INC. 702 TROY ST. RIVER FALLS, WI 54022 800-241-0525
CERTIFICATION APR 12 2011	WARREN W. SCHAEFFER, P.E. P.E. NO. 44135
DRAWING NO. 1618	REV. A
SHEET NO. 4	OF 7



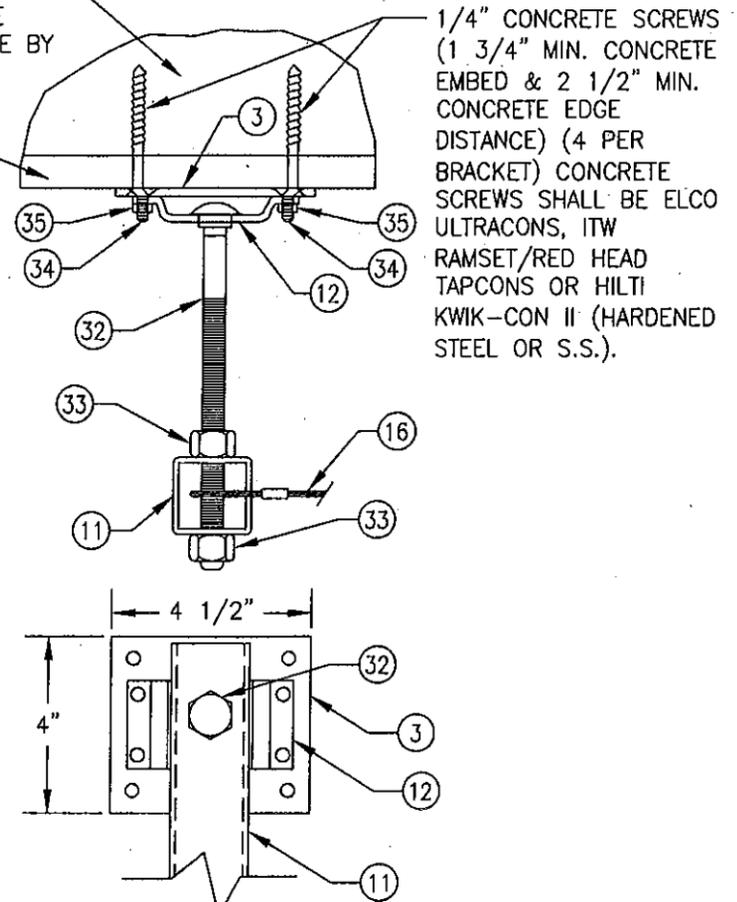
EDGE HINGE DETAIL



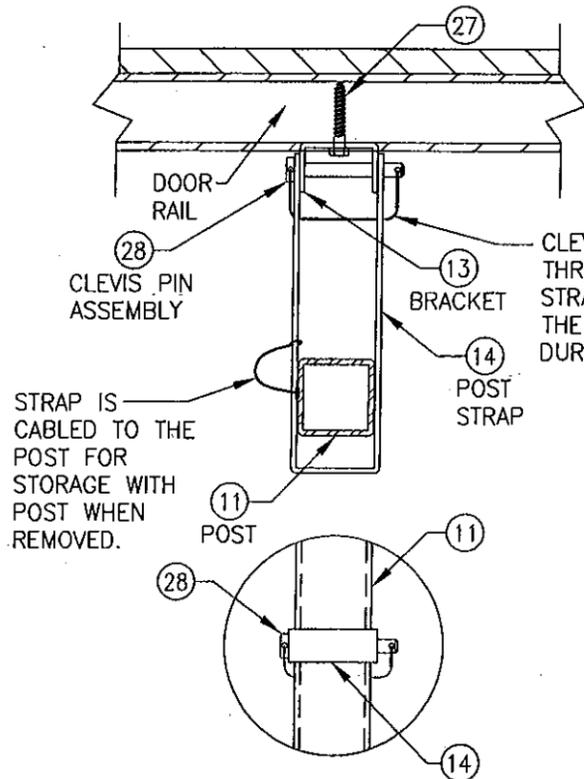
MIDDLE HINGE DETAIL



**STORM POST TOP END INSTALLATION DETAIL
(INTO WOOD SUBSTRATE)**



**STORM POST TOP END INSTALLATION DETAIL
(INTO CONCRETE SUBSTRATE)**



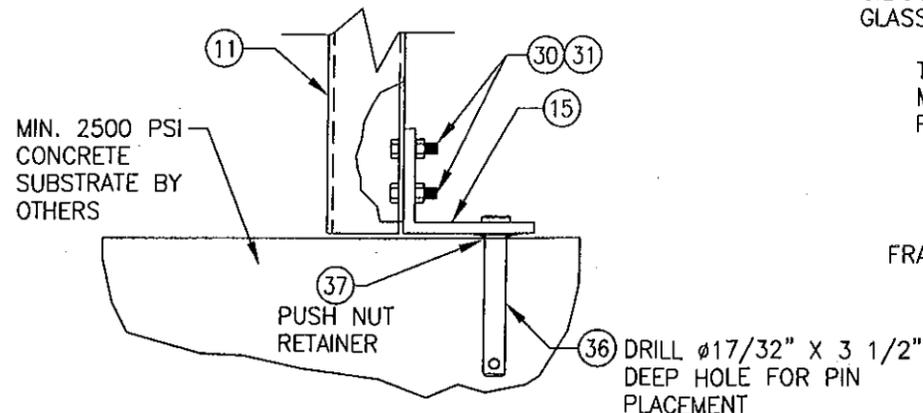
STORM POST INTERMEDIATE BRACKET DETAIL

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

CLEVIS PIN CABLE RUNS THROUGH HOLES IN THE STRAP, THUS SECURING THE PIN TO THE STRAP DURING REMOVAL.

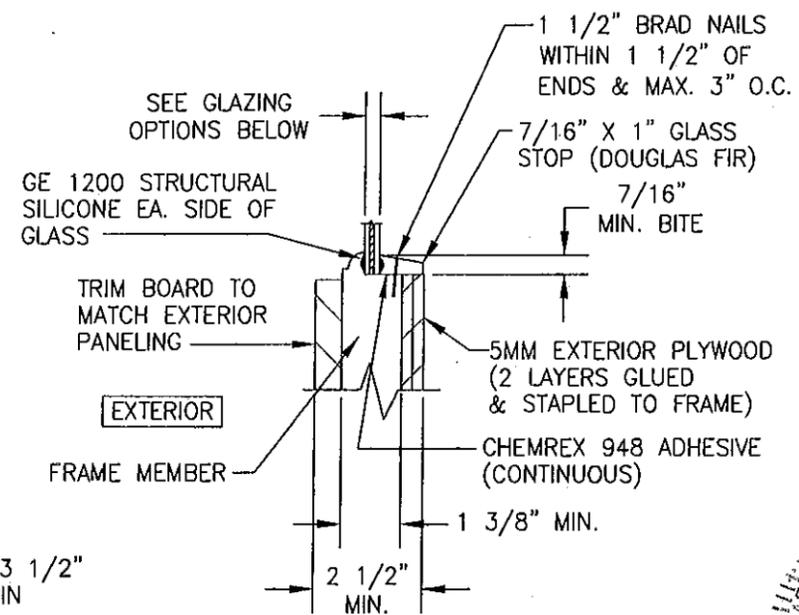
STRAP IS CABLED TO THE POST FOR STORAGE WITH POST WHEN REMOVED.

POST IS CABLED TO THE DOOR TRACK FOR STORAGE PURPOSE. ONCE POST IS REMOVED FROM THE DOOR, THE POST, STRAP & CLEVIS PIN ARE STORED NEXT TO THE DOOR.



**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)

MIN. 2500 PSI CONCRETE SUBSTRATE BY OTHERS

OPTIONAL WOOD PLATE (THICKNESS AS REQ'D)

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.

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.).

SEE GLAZING OPTIONS BELOW
GE 1200 STRUCTURAL SILICONE EA. SIDE OF GLASS

1 1/2" BRAD NAILS WITHIN 1 1/2" OF ENDS & MAX. 3" O.C.

7/16" X 1" GLASS STOP (DOUGLAS FIR)

7/16" MIN. BITE

TRIM BOARD TO MATCH EXTERIOR PANELING

EXTERIOR

FRAME MEMBER

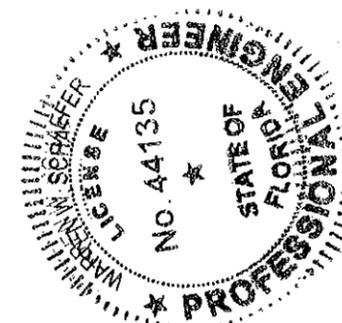
5MM EXTERIOR PLYWOOD (2 LAYERS GLUED & STAPLED TO FRAME)

CHEMREX 948 ADHESIVE (CONTINUOUS)

1 3/8" MIN.

2 1/2" MIN.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 10-1119.02
Expiration Date 12/31/2015
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.	

18 FT. WIDE HURRICANE IMPACT WOOD GARAGE DOORS
MANUFACTURER
DESIGNER DOORS, INC.
702 TROY ST.
RIVER FALLS, WI 54022
800-241-0525

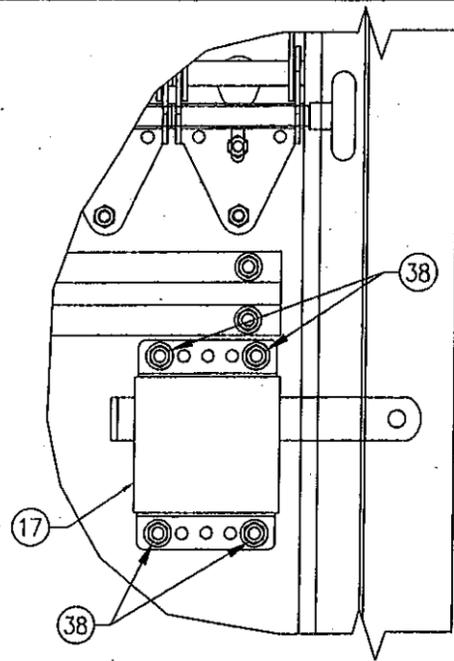
CONSULTANTS
W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

DRAWING TITLE
18 FT. WIDE HURRICANE IMPACT WOOD GARAGE DOORS

CERTIFICATION
APR 12 2011

DRAWING NO. 1618
SHEET NO. 5 OF 7

WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

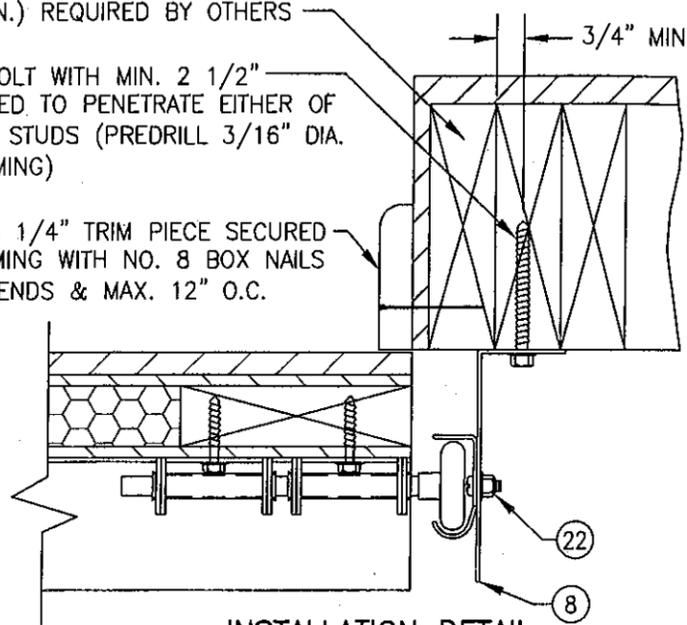


SIDE LOCK DETAIL
(MAY BE LOCATED AT EITHER SIDE OF DOOR)

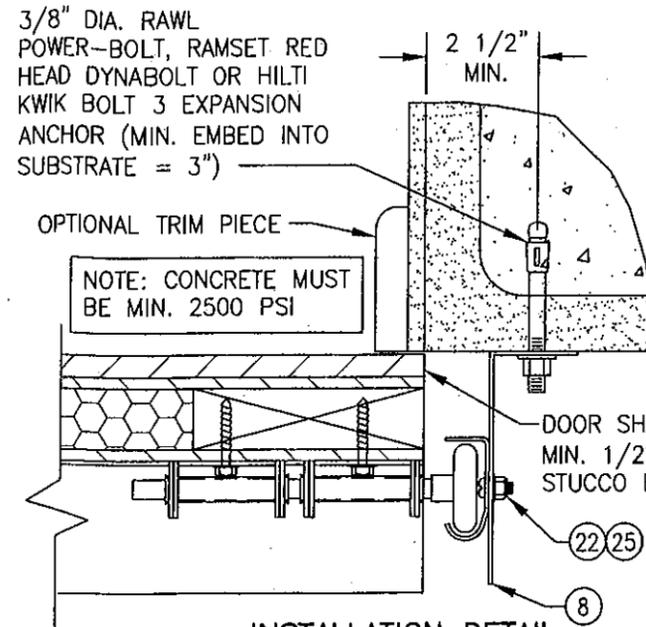
MIN. (4) 2X STUDS (SYP WITH S.G.=0.55 MIN.) REQUIRED BY OTHERS

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



INSTALLATION DETAIL DIRECT TO FILLED BLOCK OR SOLID CONCRETE

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

OPTIONAL TRIM PIECE

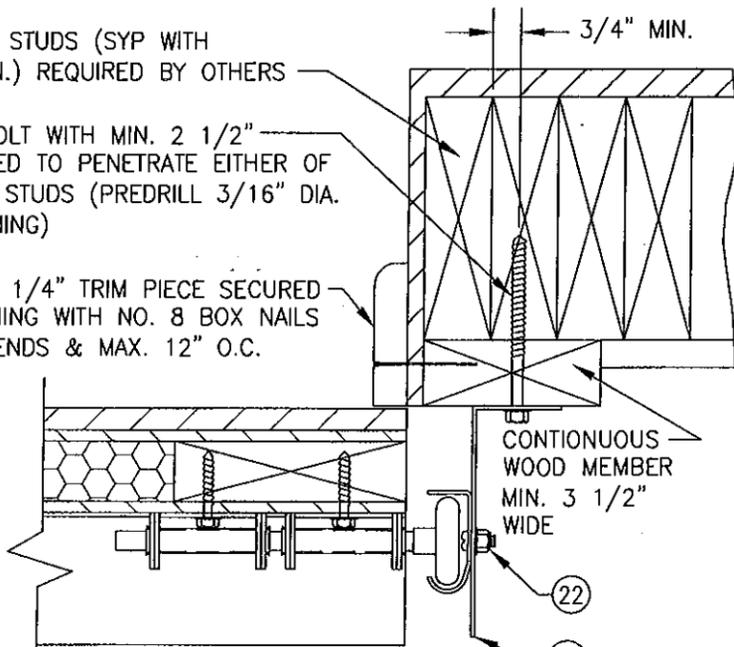
NOTE: CONCRETE MUST BE MIN. 2500 PSI

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

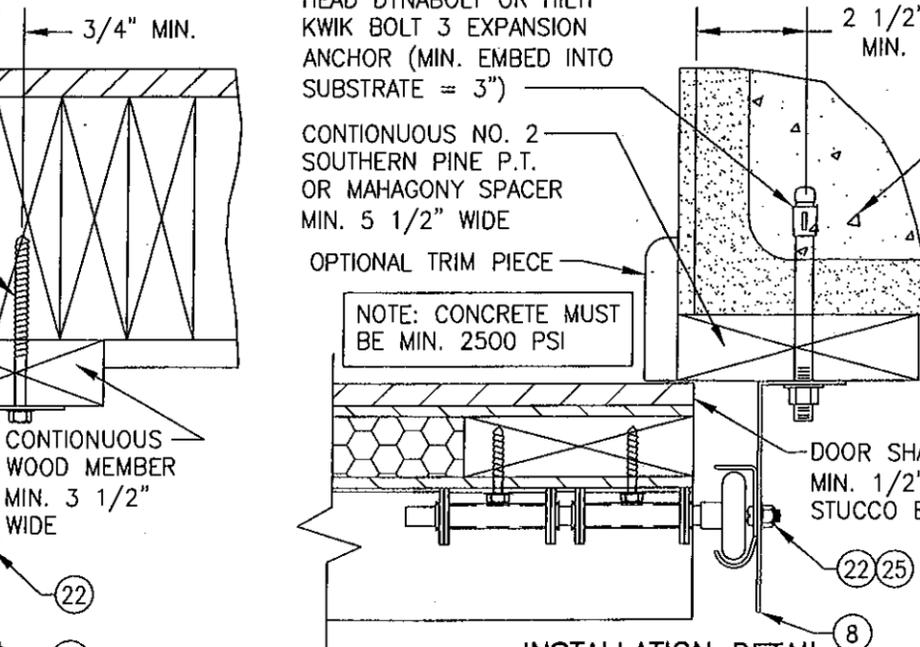
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5/16" LAG BOLT WITH MIN. 2 1/2" FRAMING EMBED TO PENETRATE EITHER OF THE FRAMING STUDS (PREDRILL 3/16" DIA. HOLE IN FRAMING)

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



INSTALLATION DETAIL SHIMMED TO FILLED BLOCK OR SOLID CONCRETE

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

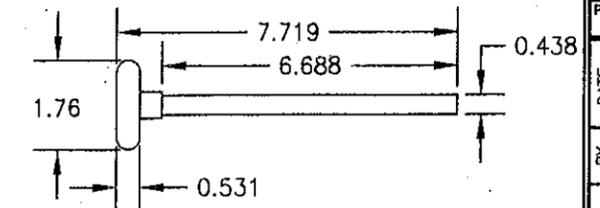
CONTINUOUS NO. 2 SOUTHERN PINE P.T. OR MAHAGONY SPACER MIN. 5 1/2" WIDE

OPTIONAL TRIM PIECE

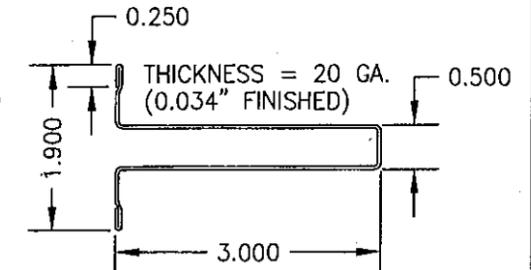
NOTE: CONCRETE MUST BE MIN. 2500 PSI

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

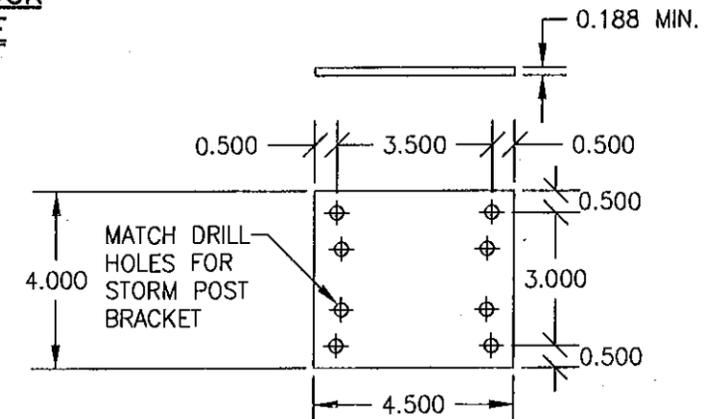
DOOR SHALL EXTEND MIN. 1/2" BEYOND STUCCO EDGE



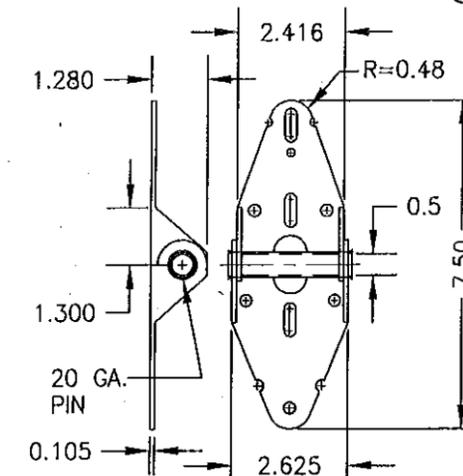
1 NYLON ROLLER WITH AISI STEEL ROD



2 3" REINFORCING STRUT

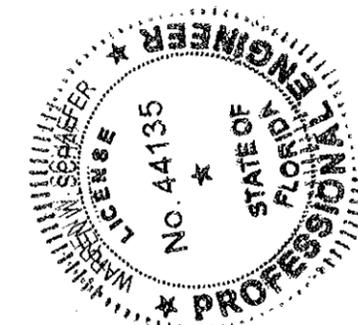


3 ADAPTER PLATE



4 SINGLE PIN HINGE

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. 10-1119.02
Expiration Date 03/18/2015
By [Signature]
Miami Trade Product Control



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=4	DATE: 10/21/08
NO.	REVISION DESCRIPTION
BY	DATE

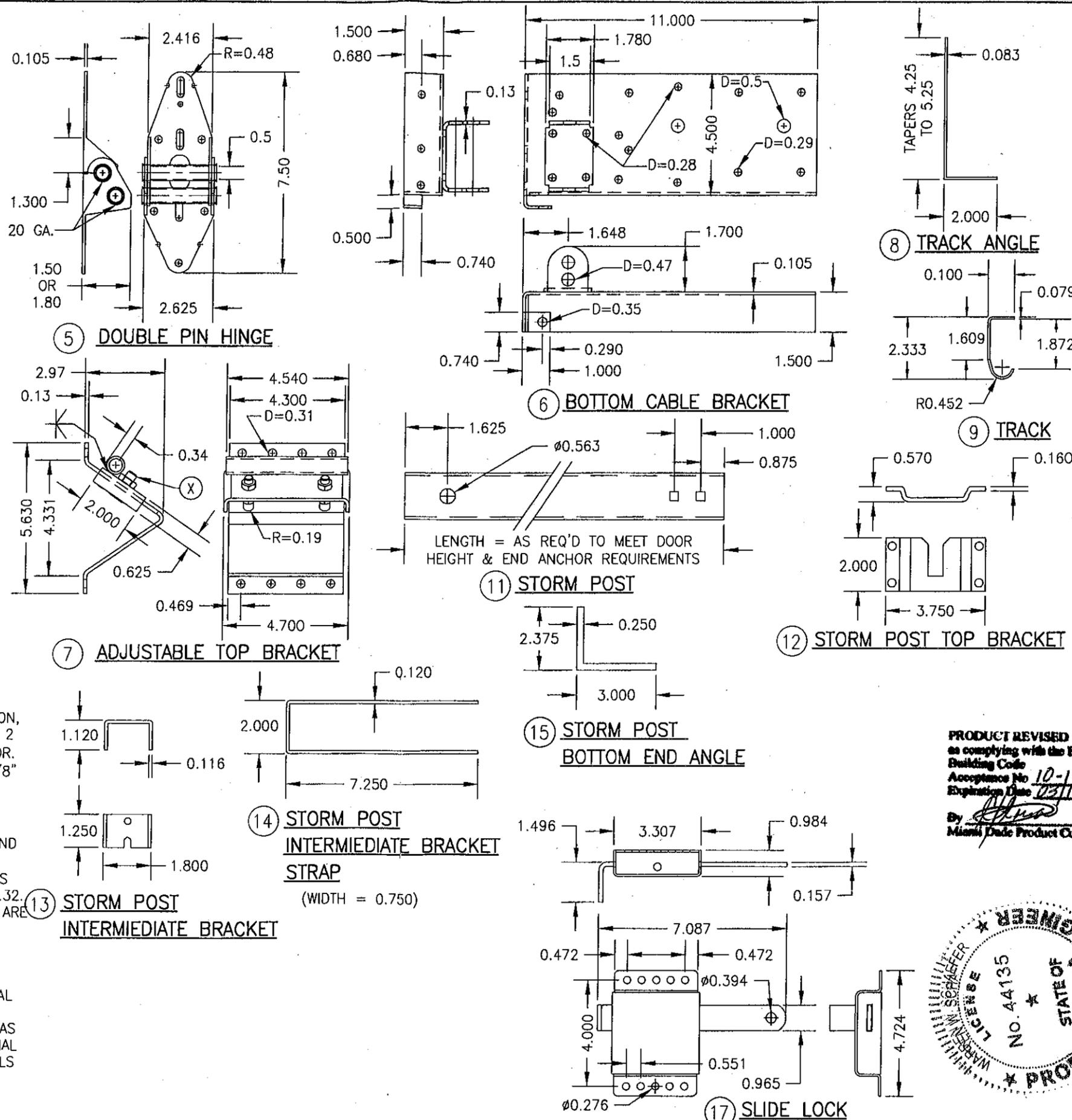
DRAWING TITLE: 18 FT. WIDE HURRICANE IMPACT WOOD GARAGE DOORS
 MANUFACTURER: DESIGNER DOORS, INC.
 702 TROY ST.
 RIVER FALLS, WI 54022
 800-241-0525
 CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
 7480 150TH COURT NORTH
 PALM BEACH GARDENS, FL 33418
 PHONE: 561-744-3424

CERTIFICATION	APR 12 2011
DRAWING NO.	1618
REV.	A
SHEET NO.	6 OF 7

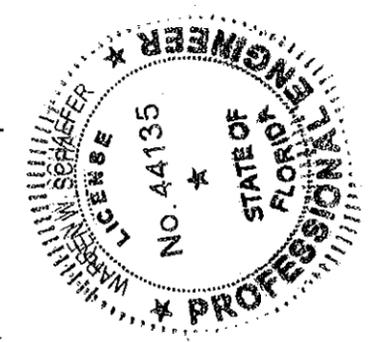
ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS & HARDWARE		
1	ROLLER	NYLON W/AISI 1045 STL. ROD
2	3" REINFORCING STRUT	GALV. 80 KSI STEEL
3	ADAPTER BRACKET	MIN. 3/16" A-36 STEEL
4	SINGLE ROLLER HINGE	GALV. 36 KSI STEEL
5	DOUBLE ROLLER HINGE	GALV. 36 KSI STEEL
6	BOTTOM CABLE BRACKET	GALV. 36 KSI STEEL
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	Ø0.125" GALV. OR S.S.
17	SLIDE LOCK	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	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	Ø0.031 X 2 1/2 CLEVIS PIN/CABLE ASSEMBLY	1 PER BRACKET; McMASTER CARR #988416A017
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	Ø1/2" X 3 1/2" CLEVIS PIN	1 PER STORM POST BOTTOM END ANGLE
37	1/2" PUSH NUT RETAINER	1 PER BRACKET; McMASTER CARR #98807A034
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 REVISED
 as complying with the Florida Building Code
 Acceptance No. 10-1119.02
 Expiration Date 02/19/2015
 By: [Signature]
 Miami Dade Product Control



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CERTIFICATION APR 12 2011 WARREN W. SCHAEFFER, P.E. P.E. NO. 44135	
DRAWING NO. 1618	REV. A
SHEET NO. 7 OF 7	