



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

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

Amarr Garage Doors dba Entrematic
165 Carriage Court
Winston Salem, NC 27105

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 MiamiDade 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 MiamiDade 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: Model 1000 Amarr 2432 EPS Insulated Steel Sectional Garage Doors up to 16'-2" Wide with Impact Resistant Windows – L.M.I.

APPROVAL DOCUMENT: Drawing No. **IBC-1016-185-26-F**, titled "Model 1000 Amarr 2432", sheets 1 through 3 of 3, dated 01/22/18, prepared by manufacturer, signed and sealed by Thomas L. Shelmerdine, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, manufacturing address, model 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.

This NOA revises **NOA No. 18-0504.03** and consists of this page 1 and evidence page E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**




1/19/21

NOA No. 20-1015.32
Expiration Date: November 08, 2023
Approval Date: January 28, 2021
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 18-0504.03)
2. Drawing No. **IBC-1016-185-26-F**, titled "Model 1000 Amarr 2432", sheets 1 through 3 of 3, dated 01/22/18, prepared by manufacturer, signed and sealed by Thomas L. Shelmerdine, P.E.
(Submitted under NOA No. 18-0504.03)

B. TESTS

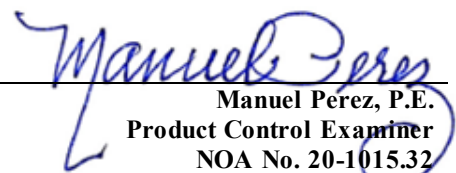
1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
4) Tensile Test per ASTM E8
5) Forced Entry Resistance Test per FBC, TAS 202-94
along with marked-up drawings and installation diagram of Amarr 16'-2"x 8' 24/27 ga. steel garage door Model 1000, prepared by American Test Lab, Inc, Test Report No. **ATLNC 0718.01-17**, dated 02/13/18, and addendum letter dated 09/05/18, both signed and sealed by David W. Johnson, P.E.
(Submitted under NOA No. 18-0504.03)
2. Test report on Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments per ASTM D1654-08 & ASTM B117-11, prepared by Intertek/ATI, Test Report No. **C5463.01-106-18**, dated 04/03/2013, signed and sealed by Joseph A. Reed, P.E.
(Submitted under NOA No. 18-0504.03)

C. CALCULATIONS

1. Anchor calculations prepared by Structural Solutions, P.A., dated 03/21/18, signed and sealed by Thomas L. Shelmerdine, P.E.
(Submitted under NOA No. 18-0504.03)

D. QUALITY ASSURANCE

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


Manuel Perez, P.E.
Product Control Examiner
NOA No. 20-1015.32
Expiration Date: November 08, 2023
Approval Date: January 28, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)

E. MATERIAL CERTIFICATIONS

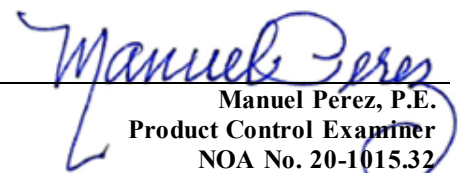
1. Notice of Acceptance No. **17-1219.02** issued to **Covestro, LLC** for their "**Makrolon Polycarbonate Sheets**" dated 03/22/18, expiring on 08/27/22.
2. UL evaluation report on Surface Burning Characteristics per ASTM E84 and ANSI/UL723 of Grade 54 and 40 Expandable Polystyrene Resins manufactured by Flint Hills Resources, Evaluation Report #**UL ER7503-01**, dated May 22, 2013 and revised on May 12, 2014.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 6th Edition (2017)** and of no financial interest, dated 03/21/18, issued by Structural Solutions, PA., signed and sealed by Thomas L. Shelmerdine, P.E.
(Submitted under NOA No. 18-0504.03)

G. OTHERS

1. None.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 20-1015.32
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. None.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

F. MATERIAL CERTIFICATIONS

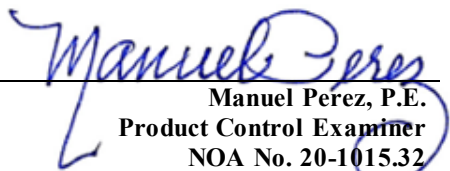
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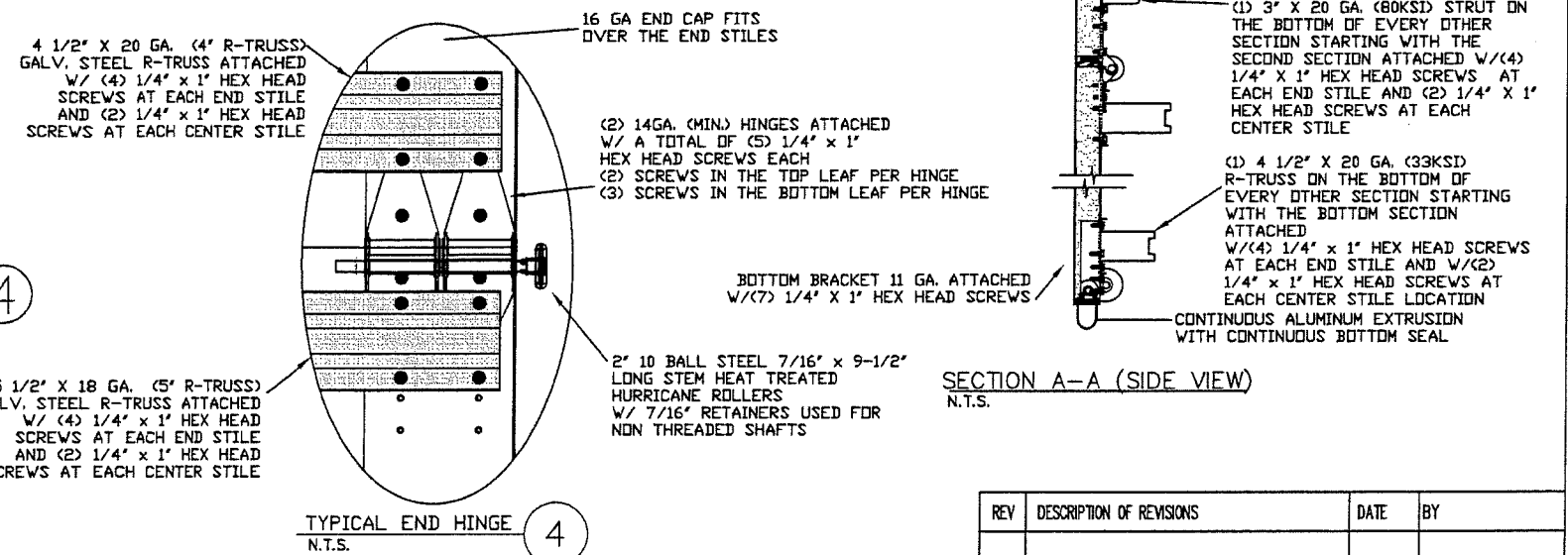
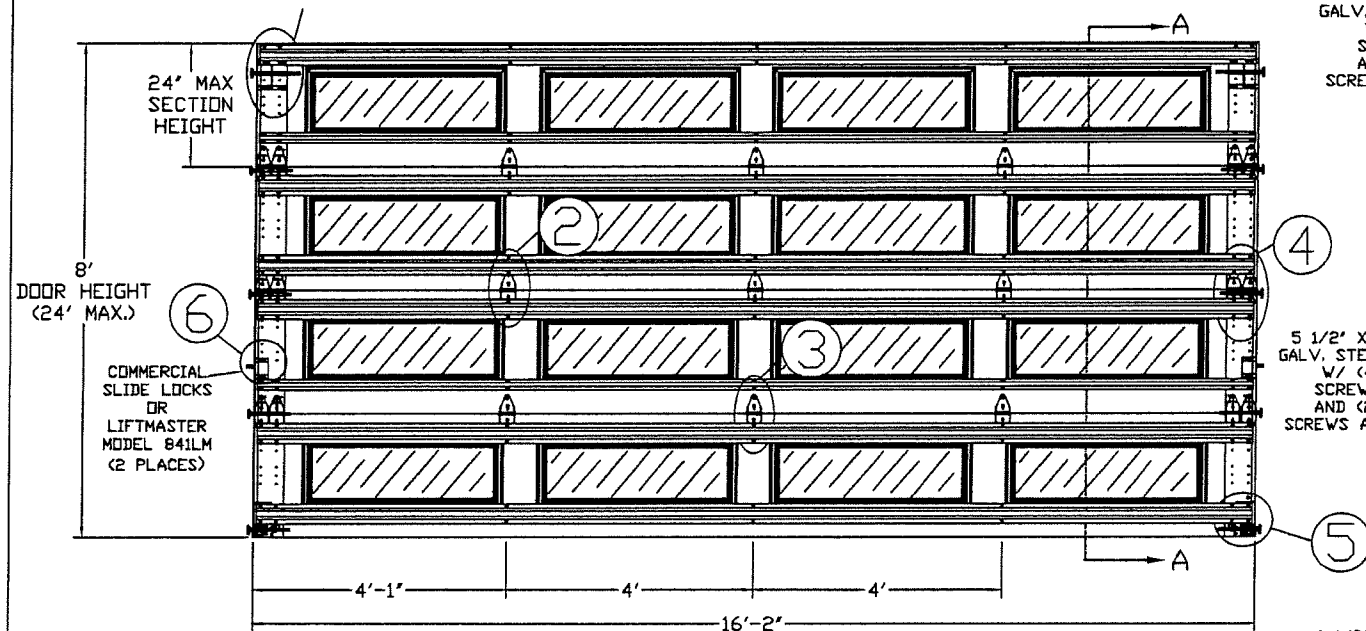
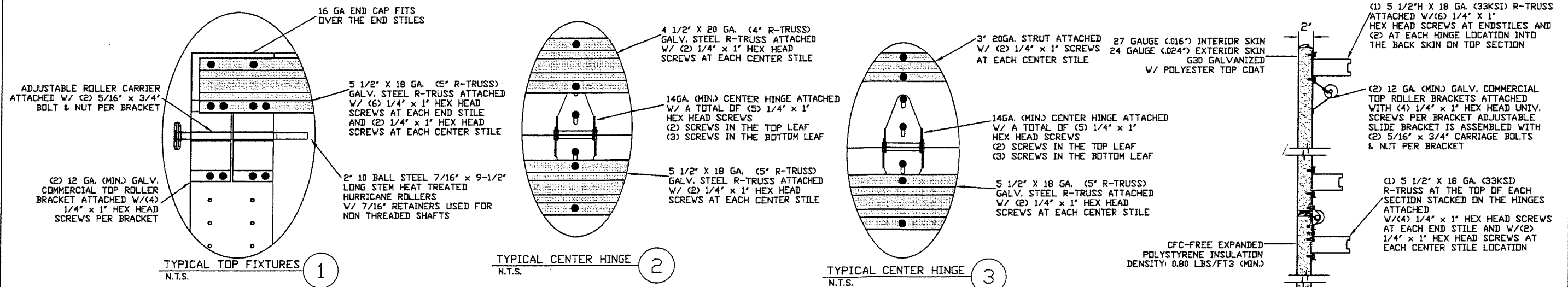
F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 7th Edition (2020)** and of no financial interest, dated August 27, 2020, issued by Structural Solutions, P.A., signed and sealed by Thomas L. Shelmerdine, P.E.

G. OTHERS

1. Notice of Acceptance No. **18-0504.03**, issued to Amarr Garage Doors dba Entrematic for their Model 1000 Amarr 2432 EPS Insulated Steel Sectional Garage Door up to 16’-2” Wide with Impact Resistant Windows – L.M.I., approved on 11/08/18 and expiring on 11/08/23.

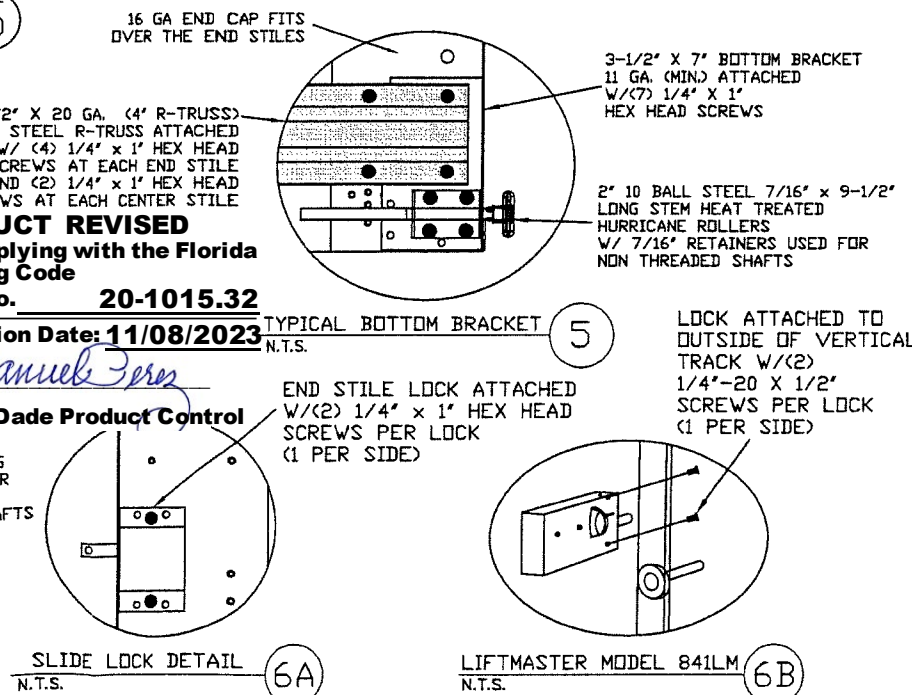
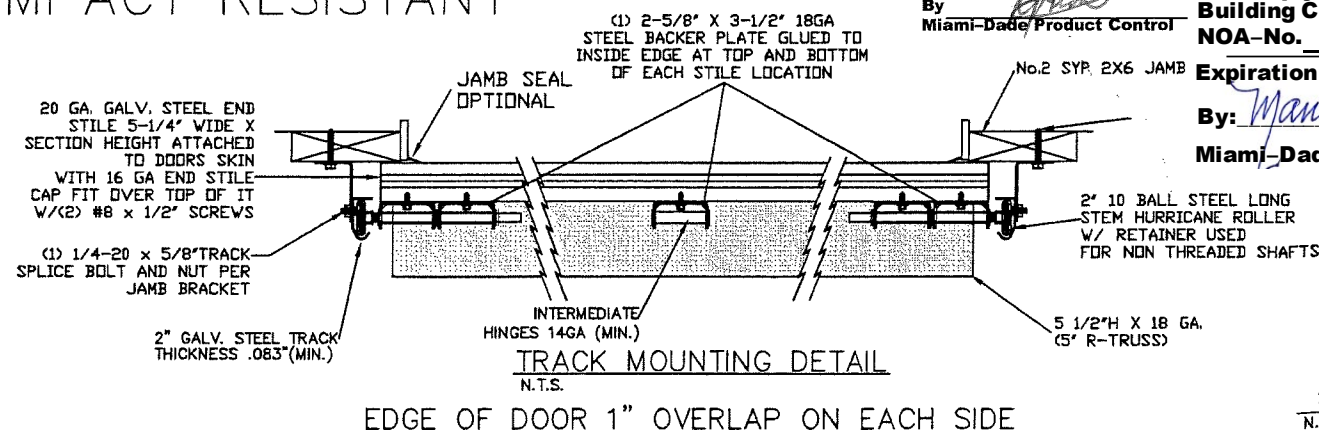

Manuel Perez, P.E.
Product Control Examiner
NOA No. 20-1015.32
Expiration Date: November 08, 2023
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LARGE MISSILE
IMPACT RESISTANT

PRODUCT APPROVED
as complying with the Florida
Building Code
NOA-No. **18-0504.03**
Approval Date: **11/08/2018**
By: *[Signature]*
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **20-1015.32**
Expiration Date: **11/08/2023**
By: *[Signature]*
Miami-Dade Product Control

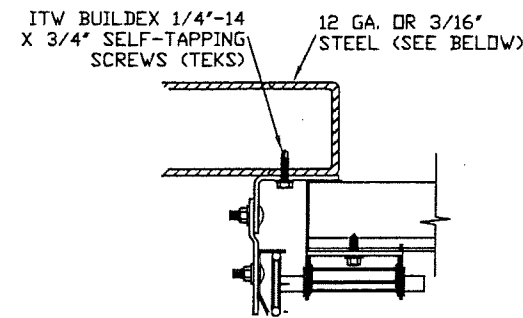


REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE 16'2 x 24'		<i>Thomas L. Shelmerdine</i> Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412) dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410
DESIGN LOADS +47.1 PSF -53.3 PSF		
TEST LOADS +70.7 PSF -80.0 PSF		
LARGE MISSILE IMPACT RESISTANCE		

MODEL 1000 AMARR 2432	
SIZE B	DRAWN BY RLR
CHECKED BY RLR	DATE 1/22/18
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105	
DRAWING NUMBER IBC-1016-185-26-F	
SHEET 1 OF 3	

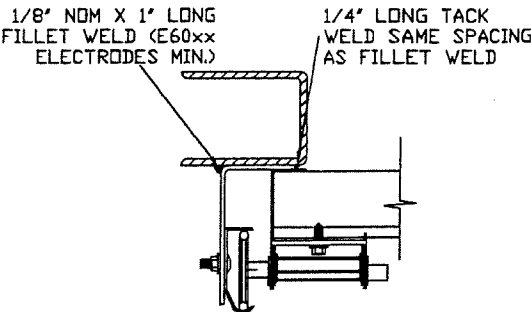
TRACK CONNECTION DIRECTLY TO STRUCTURE OPTIONS



CLIP STYLE REVERSE ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND TAPERED ANGLE
MOUNT AVAILABLE

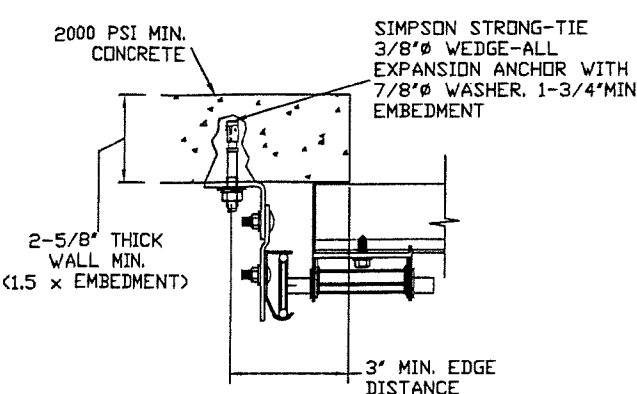
12 GA. STEEL FRAMING
232 LBS./SCREW ALLOWABLE LOAD - 3'
FROM ENDS AND 6' O.C.
REFER TO NOTES: 1, 2 AND 5

3/16\"/>



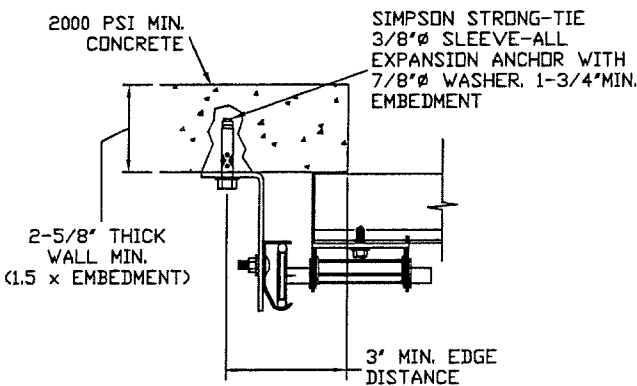
REVERSE ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND
TAPERED ANGLE MOUNT AVAILABLE

STEEL FRAMING 12GA OR BETTER
1590 LBS./IN. ALLOWABLE LOAD -
6' FROM ENDS AND 24' O.C.
REFER TO NOTES: 1, 2, 5, 6, 7, 8
AND 9



CLIP STYLE CONTINUOUS ANGLE MOUNT SHOWN
BRACKET, REVERSE AND TAPERED ANGLE MOUNT
AVAILABLE

2000 PSI CONCRETE OR GREATER
351 LBS./EXPANSION ANCHOR ALLOWABLE LOAD -
5' FROM ENDS AND 10' O.C.
REFER TO NOTES: 1, 2, 3, 4 AND 5



CONTINUOUS ANGLE MOUNT SHOWN
BRACKET, CONTINUOUS AND TAPERED ANGLE
MOUNT AVAILABLE

2000 PSI CONCRETE OR GREATER
336 LBS./EXPANSION ANCHOR ALLOWABLE
LOAD - 5' FROM ENDS AND 10' O.C.
REFER TO NOTES: 1, 2, 3, 4 AND 5

WOOD JAMB ATTACHMENT TO STRUCTURE (OPTIONAL)

2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16\"/>

2 X 6 VERTICAL JAMB ATTACHMENT TO 2,000 PSI CONCRETE
HILTI KWIK BOLT 3/8\"/>

HILTI SLEEVE ANCHOR 3/8\"/>

2 X 6 VERTICAL JAMB ATTACHMENT TO HOLLOW C-90 BLOCK (1900 PSI MIN.)

SIMPSON 1/4\"/>

HILTI 1/4\"/>

2 X 6 VERTICAL JAMB ATTACHMENT TO GROUTED C-90 BLOCK (2000 PSI GROUT)

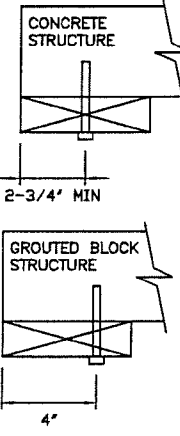
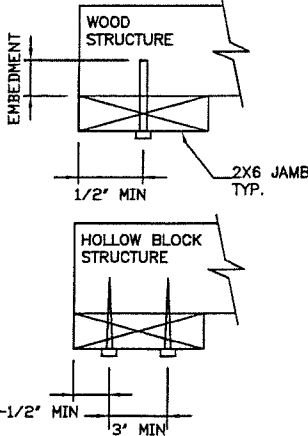
HILTI SLEEVE ANCHOR 3/8\"/>

THEN 12\"/>

(OR, USE FASTENERS FOR HOLLOW C-90 BLOCK)

*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.

*PREPARATION OF WOOD JAMBS BY OTHERS

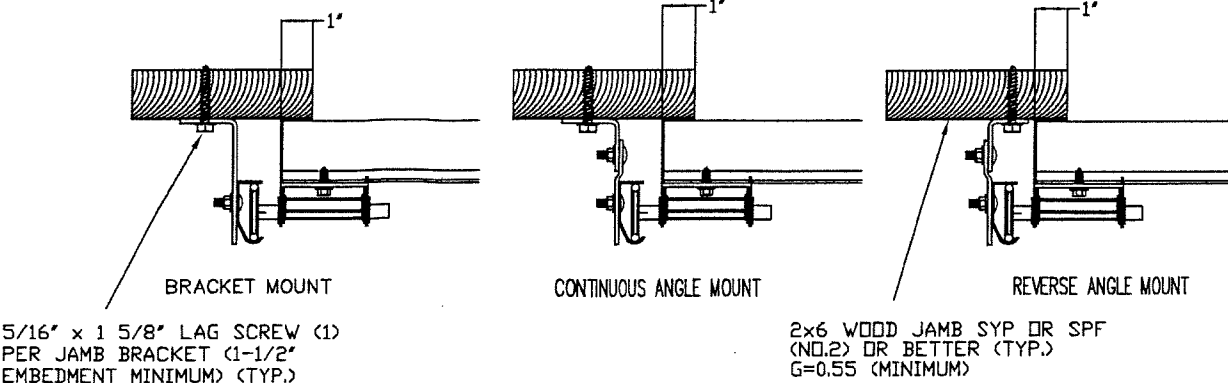


NOTES:

1. ANCHORS TO BE EVENLY SPACED BETWEEN THE HEADER AND FLOOR.
2. FIRST (BOTTOM) ANCHOR STARTING AT NO MORE THAN HALF OF THE MAXIMUM ON-CENTER DISTANCE. HIGHEST ANCHOR INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING.
3. MIN. EDGE DISTANCE OF 3' REQUIRED.
4. USE WASHERS PROVIDED BY THE ANCHOR MANUFACTURER.
5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS IN ADDITION TO OTHER LOADS.
6. MOST GARAGE DOOR TRACK IS GALVANIZED STEEL. USE ALL NECESSARY PRECAUTIONS WHEN WELDING GALVANIZED STEEL.
7. ALL WELDS SHOULD BE PERFORMED BY A CERTIFIED WELDER OR INSPECTED BY A CERTIFIED WELDING INSPECTOR TO VERIFY THE INTEGRITY OF THE WELD.
8. FILLET WELDS TO HAVE A STRAIGHT OR CONVEX FACE SURFACE.
9. TACK WELD TOE OF ANGLE AT SAME SPACING TO PREVENT ROTATION OF TRACK ANGLE.

TRACK CONNECTION TO WOOD JAMB OPTIONS

FOR LAG SCREWS & BRACKET SPACING SEE TABLE 1 ON PAGE 3



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **20-1015.32**
Expiration Date: **11/08/2023**
By: *Manuel Fern*
Miami-Dade Product Control

PRODUCT APPROVED
as complying with the Florida
Building Code
NOA-No. **18-0504.03**
Approval Date: **11/08/2018**
By: *[Signature]*
Miami-Dade Product Control

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
16'2" x 24'

DESIGN LOADS
+47.1 PSF
-53.3 PSF

TEST LOADS
+70.7 PSF
-80.0 PSF

LARGE MISSILE
IMPACT
RESISTANCE

Thomas L. Shelmerdine, PE (FL PE #00048579)
Structural Solutions, PA (FL Firm #29412)

THOMAS L. SHELMERDINE
LICENSE
No. 48679
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
FL

dba Structural Solutions of North Carolina, Inc.
5921-G W. Friendly Ave., Greensboro, NC 27410

Amarr
ENTREMATIC

MODEL 1000 AMARR 2432

SIZE	DRAWN BY	RLR	DATE	1/22/18	DRAWING NUMBER IBC-1016-185-26-F
B	CHECKED BY	RLR	DATE	1/22/18	

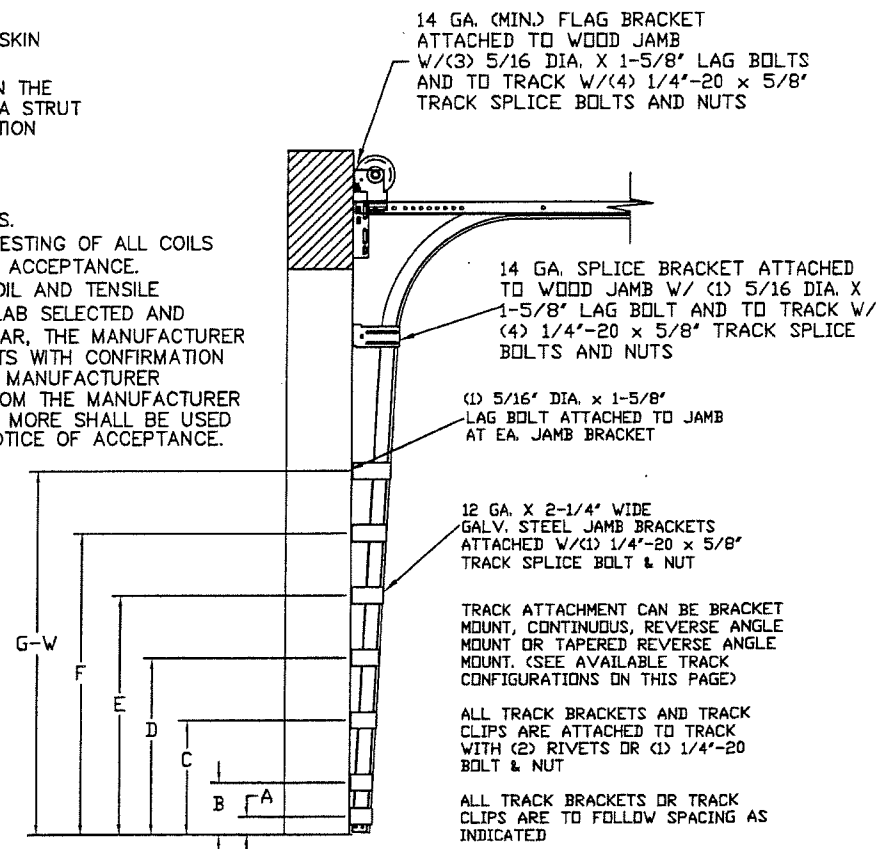
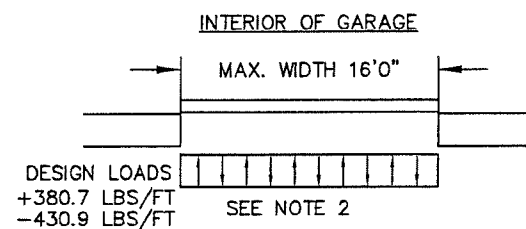
ENTREMATIC
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

SHEET 2 OF 3

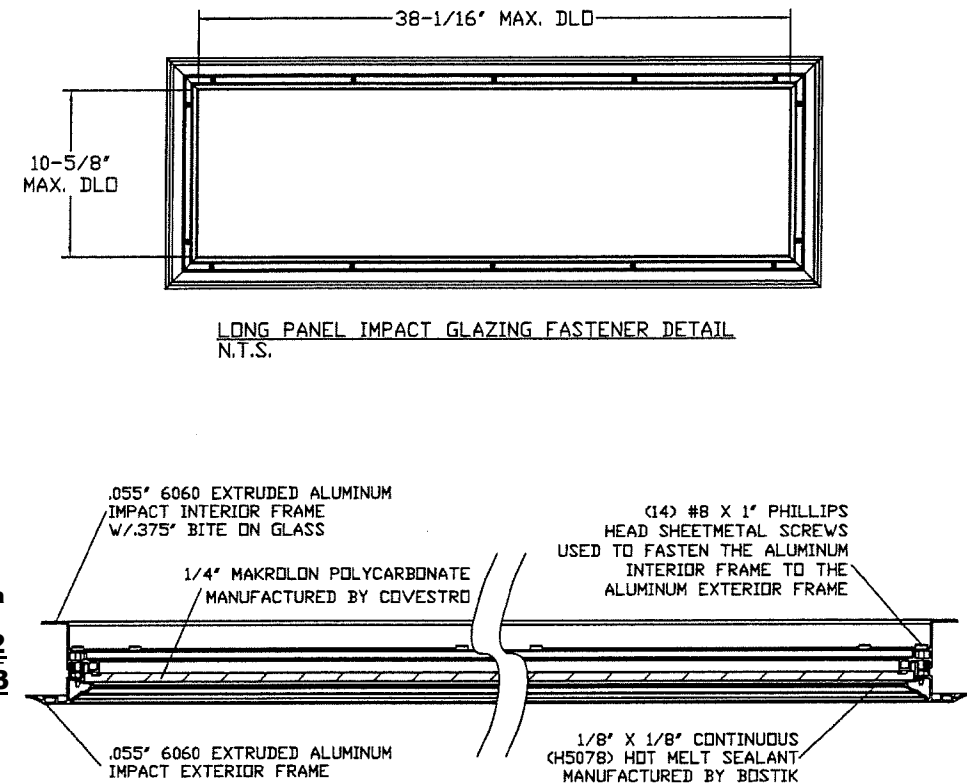
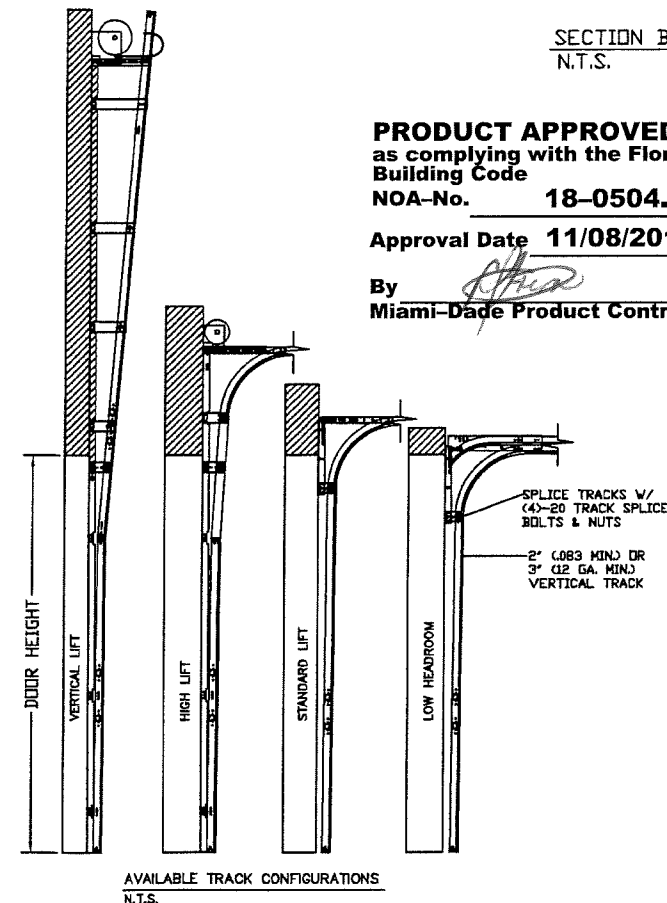
DOOR HEIGHT	TRACK ATTACHMENT																						
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
7' 0"	3.5"	10.0"	22.0"	34"	46"	58"																	
7' 6"	3.5"	10.0"	22.0"	34"	46"	58"	70"																
8' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"																
8' 6"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"															
9' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"															
9' 6"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"														
10' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"														
11' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"													
12' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"												
13' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"											
14' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"										
15' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"									
16' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"								
17' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"							
18' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"						
19' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"					
20' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"				
21' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"			
22' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"		
23' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"	250"	
24' 0"	3.5"	10.0"	22.0"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226"	238"	250"	262"

SPECIFICATIONS AND NOTES

1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE VERTICAL TRACK, FROM THE TRACK THE LOAD IS TRANSFERRED TO THE VERTICAL JAMBS. THE HORIZONTAL JAMB OR HEADER RECEIVES NO PORTION OF THE LOAD TRANSFERRED FROM THE DOOR.
2. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +380.7 LBS/FT & -430.9 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 24 GA. (.024) MIN. EXTERIOR SKIN ROLLED FORMED, G30 GALVANIZED W/POLYESTER TOP COAT
5. DOORS UP TO 24'0" HIGH USE (1) 5.5" 18GA R-TRUSS ON THE TOP OF EACH SECTION AND ALTERNATE BETWEEN (1) 3" 20GA STRUT AND (1) 4.5" 20GA R-TRUSS ON THE BOTTOM OF EACH SECTION STARTING WITH 4.5" R-TRUSS ON THE BOTTOM SECTION
6. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.
7. THIS APPROVAL REQUIRES THE MANUFACTURER TO DO TESTING OF ALL COILS USED TO FABRICATE DOOR PANELS UNDER THIS NOTICE OF ACCEPTANCE. A MINIMUM OF 2 SPECIMENS SHALL BE CUT FROM EACH COIL AND TENSILE TESTED ACCORDING TO ASTM E-8 BY A DADE APPROVED LAB SELECTED AND BY THE MANUFACTURER. EVERY 3 MONTHS, 4 TIMES A YEAR, THE MANUFACTURER SHALL MAIL TO THIS OFFICE: A COPY OF THE TEST REPORTS WITH CONFIRMATION THAT THE SPECIMENS WERE SELECTED FROM COILS AT THE MANUFACTURER PRODUCTION FACILITIES. AND A NOTARIZED STATEMENT FROM THE MANUFACTURER THAT ONLY COILS WITH YIELD STRENGTH OF 49,000 PSI OR MORE SHALL BE USED TO MAKE DOOR PANELS FOR DADE COUNTY UNDER THIS NOTICE OF ACCEPTANCE.

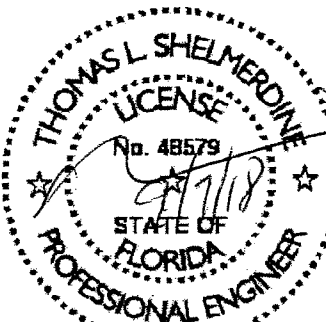


PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-1015.32
Expiration Date: 11/08/2023
By: Manuel Perez
Miami-Dade Product Control



SECTION B-B IMPACT WINDOW DETAIL
N.T.S.

PRODUCT APPROVED
as complying with the Florida
Building Code
NOA-No. 18-0504.03
Approval Date 11/08/2018
By [Signature]
Miami-Dade Product Control

REV	DESCRIPTION OF REVISIONS	DATE	BY
<p>MAX SIZE 16'2" x 24'</p> <p>DESIGN LOADS +47.1 PSF -53.3 PSF</p> <p>TEST LOADS +70.7 PSF -80.0 PSF</p> <p>LARGE MISSILE IMPACT RESISTANCE</p>		<p>Thomas L. Shelmerdine, PE (FL PE #0048579) Structural Solutions, PA (FL Firm #29412)</p> <p>FL</p>  <p>d/ba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410</p>	
<p>Amarr ENTRE/MATIC</p>			
<p>MODEL 1000 AMARR 2432</p>			
SIZE	DRAWN BY	RLR	DATE 1/22/18
B	CHECKED BY	RLR	DATE 1/22/18
<p>ENTRE/MATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105</p>			
<p>SHEET 3 OF 3</p>			<p>DRAWING NUMBER IBC-1016-185-26-F</p>