



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](http://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 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: 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 the expiration 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 #23-0615.03** 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 **Helmy A. Makar, P.E., M.S.**



*Helmy A. Makar*  
01/18/2024

NOA No. 23-1114.24  
Expiration Date: 11/08/2028  
Approval Date: 01/18/2024  
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).

**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 an 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.

  
\_\_\_\_\_  
Helmy A. Makar, P.E., M.S.  
Product Control Section Supervisor  
NOA No. 23-1114.24  
Expiration Date: 11/08/2028  
Approval Date: 01/18/2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**F. STATEMENTS**

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

**G. OTHERS**

1. None.

**2. EVIDENCE SUBMITTED UNDER NOA # 20-1015.32**

**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)

**E. MATERIAL CERTIFICATIONS**


3. 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.
4. UL evaluation report on Surface Burning Characteristics per ASTM E84 an 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 7<sup>th</sup> 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.

  
\_\_\_\_\_  
**Helmy A. Makar, P.E., M.S.**  
Product Control Section Supervisor  
NOA No. 23-1114.24  
Expiration Date: 11/08/2028  
Approval Date: 01/18/2024

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**3. 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)

**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 an 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 8<sup>th</sup> Edition (2023)** and of no financial interest, dated 10/27/2023, issued by Structural Solutions, P.A., signed and sealed by Thomas L. Shelmerdine, P.E.

**G. OTHERS**

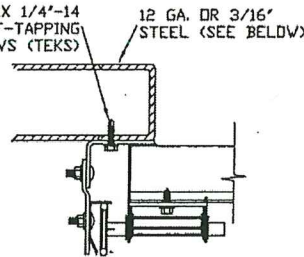
1. Notice of Acceptance No. **23-0615.03**, issued to Amarr Garage Doors dba Entrematic for their Model 1000 Amarr 2432 EPS Insulated Steel Sectional Garage Door up to 16’-2” Wide with Impact Resistant Windows – L.M.I., expiring on 11/08/28.

  
\_\_\_\_\_  
**Helmy A. Makar, P.E., M.S.**  
**Product Control Section Supervisor**  
**NOA No. 23-1114.24**  
**Expiration Date: 11/08/2028**  
**Approval Date: 01/18/2024**



## TRACK CONNECTION DIRECTLY TO STRUCTURE OPTIONS

ITW BUILDDEX 1/4"-14  
X 3/4" SELF-TAPPING  
SCREWS (TEKS)

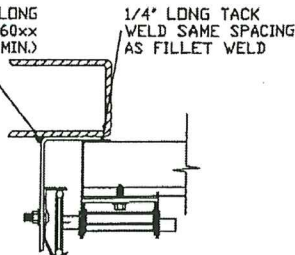


CLIP STYLE REVERSE ANGLE MOUNT SHOWN  
BRACKET, CONTINUOUS AND TAPERED ANGLE  
MOUNT AVAILABLE

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" STEEL FRAMING  
569 LBS./SCREW ALLOWABLE LOAD - 6'  
FROM ENDS AND 16" O.C.  
REFER TO NOTES: 1, 2 AND 5

1/8" NOM X 1" LONG  
FILLET WELD (E60xx  
ELECTRODES MIN)



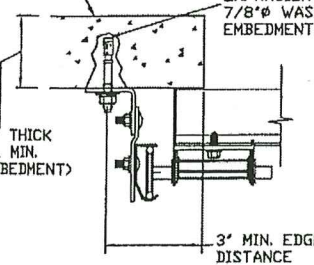
REVERSE ANGLE MOUNT SHOWN  
BRACKET, CONTINUOUS AND  
TAPERED ANGLE MOUNT AVAILABLE

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

2000 PSI MIN.  
CONCRETE

2-5/8" THICK  
WALL MIN.  
(1.5 x EMBEDMENT)

SIMPSON STRONG-TIE  
3/8" WEDGE-ALL  
EXPANSION ANCHOR WITH  
7/8" WASHER, 1-3/4" MIN.  
EMBEDMENT



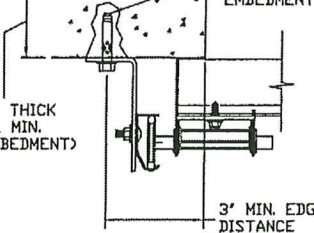
CLIP STYLE CONTINUOUS ANGLE MOUNT SHOWN  
BRACKET, REVERSE AND TAPERED ANGLE MOUNT  
AVAILABLE

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

2000 PSI MIN.  
CONCRETE

2-5/8" THICK  
WALL MIN.  
(1.5 x EMBEDMENT)

SIMPSON STRONG-TIE  
3/8" SLEEVE-ALL  
EXPANSION ANCHOR WITH  
7/8" WASHER, 1-3/4" MIN.  
EMBEDMENT



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" X 3" LAG SCREWS STARTING 6" FROM ENDS  
THEN 12" O.C. (1 1/2" EMBEDMENT)

2 X 6 VERTICAL JAMB ATTACHMENT TO 2,000 PSI CONCRETE  
HILTI KWIK BOLT 3/8" X 4" STARTING 6" FROM ENDS  
THEN 24" O.C. (2 1/2" EMBEDMENT)

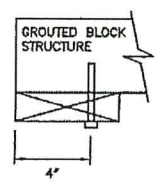
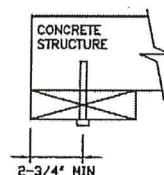
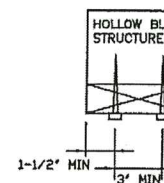
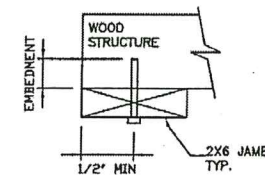
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS  
THEN 10" O.C. (1 1/4" EMBEDMENT)  
ITW/RAMSET REDHEAD (TRU-BOLT) 3/8" X 4" STARTING 6" FROM ENDS  
THEN 20" O.C. (2 1/2" EMBEDMENT)

2 X 6 VERTICAL JAMB ATTACHMENT TO HOLLOW C-90 BLOCK (1900 PSI MIN)  
SIMPSON 1/4" X 3" TITEN SCREWS STARTING 6" FROM ENDS,  
USE PAIRS OF FASTENERS (3" APART)  
AT 8" O.C. (1 1/2" EMBEDMENT)

HILTI 1/4" X 2-3/4" KWIK-CON II+ SCREWS STARTING 6" FROM ENDS,  
USE PAIRS OF FASTENERS (3" APART) AT 8" O.C. (1 1/4" EMBEDMENT)

2 X 6 VERTICAL JAMB ATTACHMENT TO GROUTED C-90 BLOCK (2000 PSI GROUT)  
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS  
THEN 12" O.C. (1 1/4" EMBEDMENT)

(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



**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No. 23-1114.2Y  
Expiration Date 11/08/2028  
By *Heidi A. Maher*  
Miami-Dade Product Control

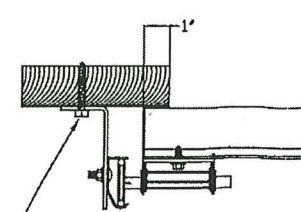
**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 23-0615.03  
Expiration Date 11/08/2028  
By *Heidi A. Maher*  
Miami-Dade Product Control

### 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.

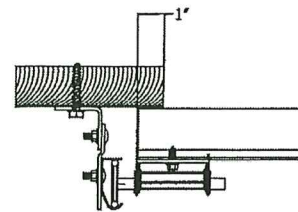
## TRACK CONNECTION TO WOOD JAMB OPTIONS

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



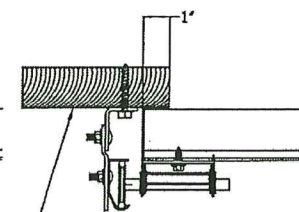
BRACKET MOUNT

5/16" x 1 5/8" LAG SCREW (1)  
PER JAMB BRACKET (1-1/2"  
EMBEDMENT MINIMUM) (TYP.)



CONTINUOUS ANGLE MOUNT

2x6 WOOD JAMB SYP OR SPF  
(NO.2) OR BETTER (TYP.)  
G=0.55 (MINIMUM)



REVERSE ANGLE MOUNT

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

**PRODUCT APPROVED**  
as complying with the Florida  
Building Code  
NOA-No. 18-0504.03  
Approval Date: 11/08/2018  
By: *Heidi A. Maher*  
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  
LICENSE  
No. 98679  
STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER  
FL

**Amarr**  
ENTREMATICS

**MODEL 1000 AMARR 2432**

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

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

SHEET 2 OF 3

