

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

Alpine Overhead Doors, Inc. 8 Hulse Road, East Setauket, NY 11733

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: Redi- Storm 16 Steel Rolling Door up to 16'-0" Wide – L.M.I.

APPROVAL DOCUMENT: Drawing No. **23-63717**, titled "-REDI-STORM-16 Steel Rolling Door", sheets 1 through 6 of 6, dated 10/31/23, prepared by Engineering Express, signed and sealed by Richard Neet, 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 Limitations:

- 1. Roll-up mechanism and/or Electrical functions are not part of this approval.
- 2. Where weld is specified, the 1/4" fillet weld with 70xx electrodes to be used, including weld in table (Sheet 6).
- 3. See sheet 4, for Concrete installation min Concrete compressive strength, anchor type, min embedment and edge distance. See table (sheet 6) for anchor diameter specified.

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 & renews NOA No. 21-0809.03 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 Ishaq I. Chanda, P.E.

Ishay 1. Chank 12/14/23

NOA No. 23-1024.02

Expiration Date: December 11, 2028 Approval Date: December 14, 2023

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. 08-0805.15)
- 2. Drawing No. **ALP16**, titled "Redi-Storm 16" sheets 1 through 3 of 3, dated 12/12/08, with revision #2 dated 09/05/18, prepared by manufacturer, signed and sealed by Felice P. DeGiovanni, P.E.

(Submitted under NOA No. 18-0911.03)

B. TESTS

- 1. Test reports on: 1) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94 along with installation diagram of a Redi-Storm 16 Steel Rolling Door, prepared by UL, LLC, File No. **R38123**, Project E 4786543675, dated 09/22/14, signed by Richard LeGrand, P.E. (Submitted under NOA No. 14-0915.03)
- 2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 2) Large Missile Impact Test per FBC, TAS 201-94
 - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94 along with installation diagram of a Redi-Storm 16 Roll up Door, prepared by ETC

Laboratories, Test Report No. ETC-07-1102-20195.0, dated 05/29/08, signed and sealed by Joseph L, Doldan, P.E.

(Submitted under NOA No. 08-0805.15)

3. Test reports on: 1) Tensile Test, per ASTM E8 along with installation diagram of a Redi-Storm 16 Steel Rolling Door, prepared by ETC Laboratories, Test Report No. ETC-08-1102-21835, dated 10/08/08, signed and sealed by Joseph L, Doldan, P.E.

(Submitted under NOA No. 08-0805.15)

C. CALCULATIONS

1. Structural analysis and anchor verification calculations prepared by manufacturer, dated 06/09/08, signed and sealed by Felice P. DeGiovanni, P.E.

(Submitted under NOA No. 08-0805.15)

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

Ishaq I. Chanla

Ishaq I. Chanda, P.E. Product Control Unit Supervisor NOA No. 23-1024.02

Expiration Date: December 11, 2028 Approval Date: December 14, 2023

Alpine Overhead Doors, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC** 6th **Edition (2017)** and of no financial interest, dated 09/05/18, issued by F. Paul DeGiovanni, P.E. Consulting Engineer, signed and sealed by Felicia P. DeGiovanni, P.E.

(Submitted under NOA No. 18-0911.03)

G. OTHERS

1. Notice of Acceptance No. **16-1013.14**, issued to Alpine Overhead Doors, Inc. for their Redi-Storm 16 Steel Rolling Door up to 16'- 0" Wide, approved on 12/08/16 and expiring on 12/11/18.

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)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC** 7th **Edition (2020)** and of no financial interest, dated August 1, 2021, issued by F. Paul DeGiovanni, P.E. Consulting Engineer, signed and sealed by Felicia P. DeGiovanni, P.E.

G. OTHERS

1. Notice of Acceptance No. **18-0911.03**, issued to Alpine Overhead Doors, Inc. for their Redi-Storm 16 Steel Rolling Door up to 16'- 0" Wide, approved on 11/15/18 and expiring on 12/11/23.

Ishay 1. Chande

Ishaq I. Chanda, P.E. Product Control Unit Supervisor NOA No. 23-1024.02

Expiration Date: December 11, 2028 Approval Date: December 14, 2023

Alpine Overhead Doors, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. NEW EVIDENCE SUBMITTED

A. DRAWINGS

- 1. Drawing No. 23-63717, titled "-REDI-STORM-16 Steel Rolling Door", sheets 1 through 6 of 6, dated 10/31/23, prepared by Engineering Express, signed and sealed by Richard Neet, P.E.
- B. TESTS (submitted under previous approval)
 - 1. None.

C. CALCULATIONS

1. Structural analysis and anchor verification calculations prepared by Engineering Express, dated 10/31/23, signed and sealed by Richard Neet, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

- 1. Statement letter of conformance, complying with **FBC 8th Edition (2023)** dated 12/08/23, prepared by Engineering Express, signed and sealed by Richard Neet, P.E.
- 2. Statement letter of conformance, complying with **FBC** 7th **Edition** (2020) and of no financial interest, dated August 1, 2021, issued by F. Paul DeGiovanni, P.E. Consulting Engineer, signed and sealed by Felicia P. DeGiovanni, P.E. (submitted under previous approval).

G. OTHERS

1. This NOA revises & renews NOA No. 21-0809.03, updates to FBC 2023, expiring on 12/11/28.

Ishay I. Chanda

Ishaq I. Chanda, P.E. Product Control Unit Supervisor NOA No. 23-1024.02

Expiration Date: December 11, 2028 Approval Date: December 14, 2023

REDI-STORM 16 STEEL ROLLING DOOR LARGE/SMALL MISSILE IMPACT RESISTANCE

MAXIMUM (ASD) ALLOWABLE **DESIGN PRESSURES:**

+ / - 60 PSF

GENERAL NOTES:

1. THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) FOR USE INSIDE AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE, PER TAS 201, 202, AND 203 STANDARDS. SEE PRODUCT EVALUATION REPORT FOR MORE INFORMATION.

2. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED PER SEPARATE ENGINEERING IN ACCORDANCE WITH ASCE 7-16 AND RECOURT PROBLEMS.

REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH ASCE 7-16 AND CHAPTER 1609 OF THE FLORIDA BUILDING CODE SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN.

3. PRESSURE VALUES ON THIS APPROVAL ARE (ASD) ALLOWABLE DESIGN PRESSURES.

DESIGN PRESSURES.

4. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT. THESE INSTALLATION INSTRUCTIONS ARE PART OF A PRODUCT APPROVAL EVALUATION AND SHALL ONLY BE USED IN CONJUNCTION WITH THE EVALUATION REPORT SUBMITTED FOR THE SAME PRODUCT APPROVAL.

5. SLATS TO BE ASTM A653 GRADE C WITH G-90 GALVANIZING OR STAINLESS STEEL WITH MINIMUM FY = 40 KSI.

6. ALL STEEL ANGLES AND WIND BAR TO BE SHOP PRIMED. SHALL BE ASTM A36 OR STRONGER.

BE ASTM A36 OR STRONGER.

7. HOST STRUCTURE SHALL BE EITHER 1/4" THICK MIN. ASTM A36 OR STRONGER STEEL, OR 3000 PSI MIN. UNCRACKED CONCRETE, AS

8. WINDLOCKS TO BE DUCTILE IRON WITH MINIMUM FY = 42 KSI. ALL ASSEMBLY BOLTS TO BE ASTM A449 / SAE GR 5 THREADS

ARE INCLUDED IN THE SHEAR PLANE.

10. ALL WELDING TO BE IN ACCORDANCE WITH AWS LATEST EDITION OF THE FLORIDA BUILDING CODE. WELDING TO BE DONE BY WELDERS USING 70XX ELECTRODES.

11. SPRING COUNTERBALANCE TO BE HOUSED IN A STEEL PIPE OF DIAMETER AND WALL THICKNESS TO RESTRICT MAXIMUM DEFLECTION OF DIAMETER AND WALL. THICKNESS TO RESTRICT MAXIMUM DEFLECTION OF 0.03" PER FOOT OF DOOR WIDTH. ROLL-ON MECHANISM NOT PART OF THIS APPROVAL MUST BE CERTIFIED BY AN INDEPENDENT CERTIFYING AGENT.

12. RIVETS FOR WIND LOCKS/END LOCKS ARE TO BE SEMI-TUBULAR 0.246/0.252 DIA 0.437 MUSHROOM HEAD X 7/16", ASTM A-31.

13. DOOR IS TO BE 22 GAUGE ASTM 525.

14. BRACKETS ARE STEEL PLATES NOT LESS THAN 3/16" THICK. BALL BEARING AT ROTATING SUPPORT POINTS. BOLTED TO MOUNTING ANGLE, SUPPORTS COUNTERBALANCE ASSEMBLY AND FORMS END ENCLOSURES SIZED TO CONFORM.

15. DOOR MAY BE INSTALLED ON THE INSIDE OR OUTSIDE OF AN EXTERIOR WALL DOOR IMPACTED ON BOTH SIDES.

16. GUIDE DETAILS CAN BE USED IN ANY COMBINATION.

17. ROLL-UP MECHANISM AND HOOD ASSEMBLY ARE NOT PART OF

18. THIS DOCUMENT CONTAINS INFORMATION RELEVANT TO THE NECESSARY STRUCTURAL REQUIREMENTS OF THE SYSTEM INSTALLATION. COMPONENTS AND FASTENERS NOT REFERENCED WHICH ARE PART OF THE INTERNAL FABRICATION OF THE SPECIFIED SYSTEMS OR ASSEMBLIES SHALL BE PER MANUFACTURER PUBLISHED SPECIFICATIONS.

19. PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS OUTLINED HEREIN. 20. CONTRACTOR SHALL BE RESPONSIBLE TO INSULATE DISSIMILAR

MATERIALS TO PREVENT ELECTROLYSIS. 21. WATERPROOFING IS NOT PART OF THIS CERTIFICATION AND SHALL BE CERTIFIED BY OTHERS.

UNITED STATES PATENT NUMBERS: 5,657,805 - 5,419,386

MATERIAL:

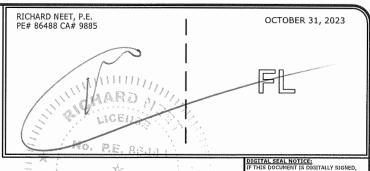
CURTAIN: 22 GAUGE GALVANIZED STEEL SHEET ROLL FORMED 2-3/4" FLAT SLAT SECTIONS. FINISH: STANDARD.

HOOD: 24 GAUGE GALVANIZED STEEL SHEET FORMED TO FIT BRACKETS

GUIDES: DESIGNED USING A-36 STRUCTURAL STEEL ANGLES, 1/2" STOCK FOR WINDBAR. FINISH: STANDARD.

BOTTOM BAR: TWO ANGLES WHICH EXTENDS INTO GUIDES, EQUIPPED WITH VINYL WEATHER-STRIPPING. FINISH: STANDARD.

SHEE	T INDEX
# SHEET	DESCRIPTION
1	COVER SHEET
2-3	COIL SIDE ELEV/SECTION VIEWS
3	SLIDE LOCK & WINDLOCK/ENLOCK VIEWS
4	GUIDE SECTION, CURTAIN & BOTTOM BAR VIEWS
5	REACTION FORCES SCHEDULE NOTES & MOUNT DETAILS
6	REACTION FORCES SCHEDULE



STATE OF AGRIDA.

PRODUCT RENEWED

Building Code

NOA-No.

as complying with the Florida

Expiration Date 12/11/2028

Miami-Dade Product Control

Ishag 1. Chands

23-1024.02

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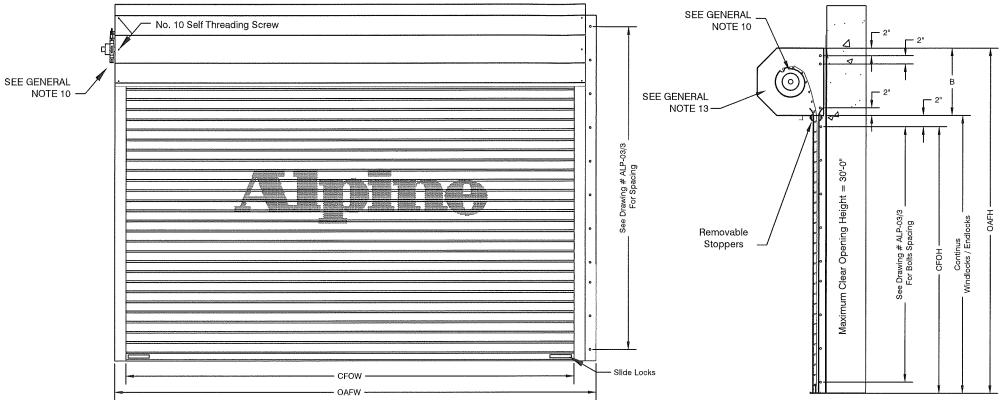
E OVERHEAD DOORS, II 8 HULSE ROAD T SETAUKET, NEW YORK 1173: (631) 473-9300

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23-63717 SCALE: NTS UNLESS NOTE



			COIL SID		VERTICAL SECTION							
QTY	MK	CLEAR FRAM	IE OPENING	OVERALL	FRAME	FRAME O	PENING	В	G	GD	OPER-	0011/6
Q / /	IVII	C F O WIDTH	C F O HEIGHT	O A F WIDTH	OAF HEIGHT	F O W IDTH	FOH EIGHT	BRACKET	GUIDE	GUIDE DEPTH	ATION	DRIVE
1		16'-0"	10'-0"	16'-6 3/4"	11'-6"	16'-0"	10'-0"	16"	3"	4 1/2"	Manual	
,				(E Mount)								
. Arrange of the control of the cont									·			

COIL SIDE ELEVATION/SECTION

NOT TO SCALE

ELEVATION/SECTION VIEW

PRODUCT RENEWED as complying with the Florida Building Code NOA-No. 23-1024.02

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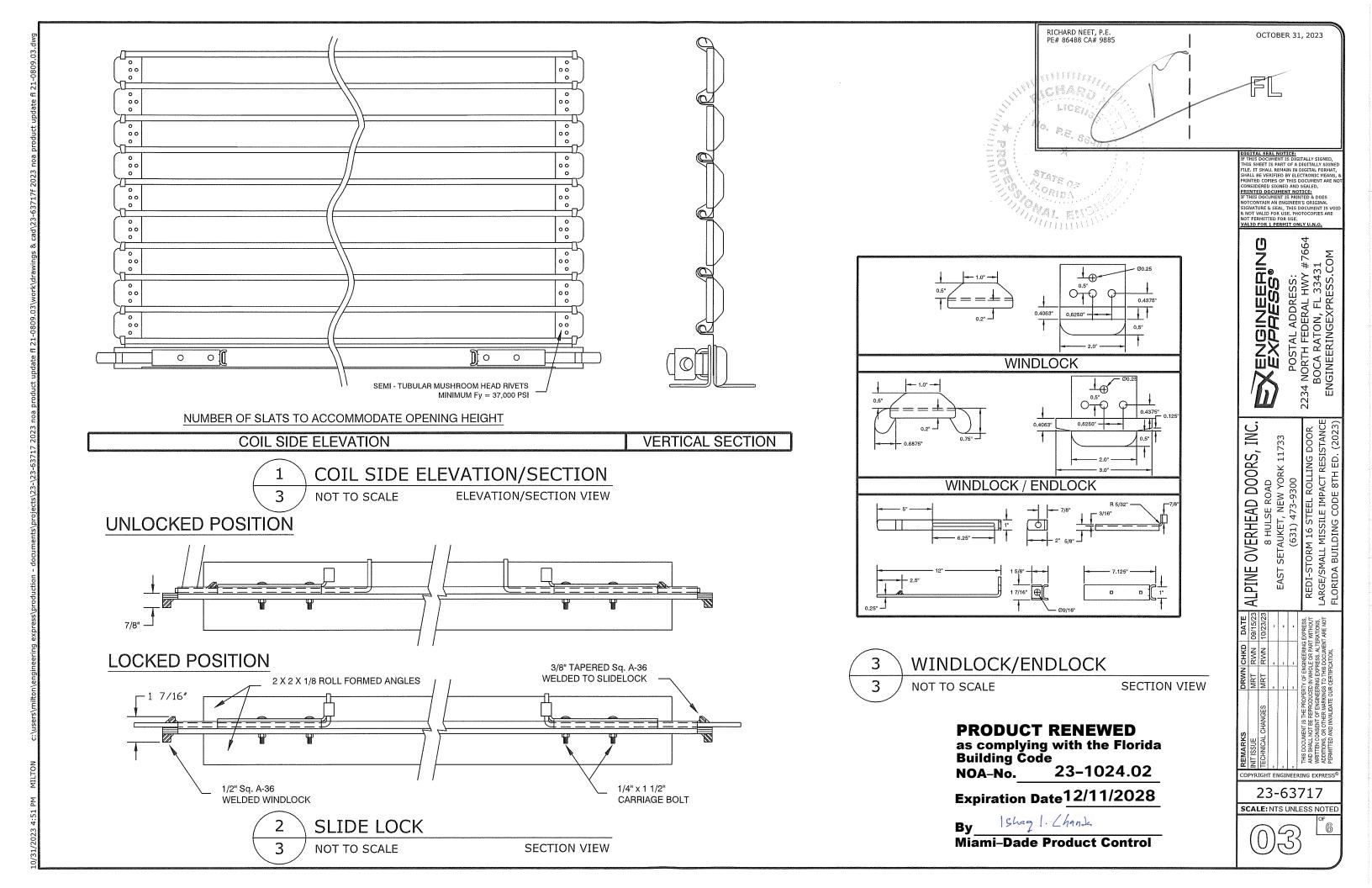
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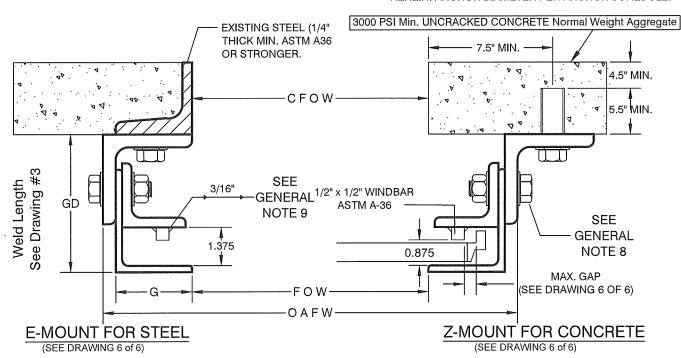
SCALE: NTS UNLESS NOTED







PROVIDE SIMPSON STRONG-TIE AT-XP® HIGH-STRENGTH ACRYLIC ADHESIVE W/ ASTM A193 GR. B7 ANCHOR. MINIMUM EMBEDMENT & EDGE DISTANCE AS SHOWN HEREIN, ANCHOR DIAMETER PER ANCHOR SCHEDULE.

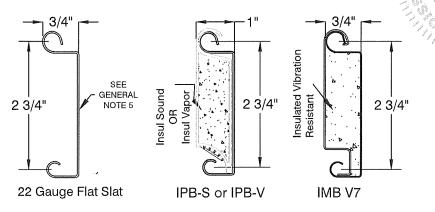


GUIDE SECTION NOT TO SCALE SECTION VIEW

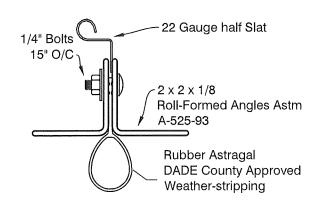
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CURTAIN NOT TO SCALE **VIEW**



BOTTOM BAR NOT TO SCALE **VIEW** DIGITAL SEAL NOTICE:
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ALPINE OVERHEAD DOORS, INC.

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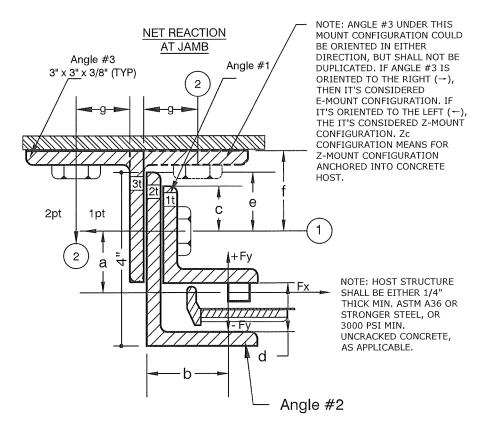
Ishag 1. Chands Miami-Dade Product Control

> **NET REACTION** AT JAMB EXISTING STEEL (1/4" THICK MIN. Angle #1 ASTM A36 OR 2.5" x 2.5" x 5/16" (TYP) STRONGER) Angle #2 4" x 3" x 1/4" (TYP)

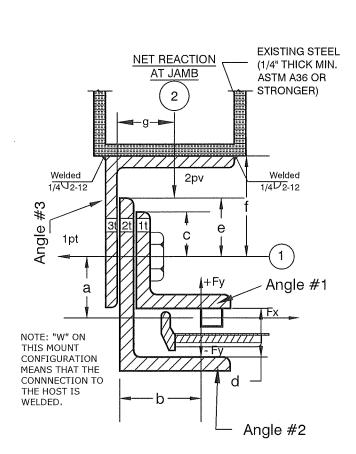
F-MOUNT SECTION VIEW NOT TO SCALE

REACTION FORCES SCHEDULE NOTES:

- 1. REACTION FORCES CALCULATIONS ARE BASED ON ACTUAL TESTING RESULT ON THE SLAT DEFLECTION CURVE ASSUMING THE SHAPE OF A CATENARY AS SOON AS THE WINDLOCKS ENGAGE THE GUIDES. THE WINDLOCKS LIMIT THE SLAT DEFLECTION AND BENDING STRESS AND ARE DESIGNED TO ENGAGE GUIDES PRIOR TO THE SLATS ATTAINING MAXIMUM ALLOWABLE DEFLECTIONS AND BENDING STRESS WITHOUT RESTRAINTS.
- 2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR / OWNER TO VERIFY THAT THE STRUCTURE IS DESIGNED TO SUPPORT FORCES FX AND FY AT BOTH JAMBS.
- 3. BOLTS TO BE AS PER ASTM A449 EXCEPT FOR MOUNTING TO CONCRETE JAMBS WHICH SHALL BE ASTM 193-B7 THREADED ROD BONDED WITH SIMPSON STRONG-TIE ADHESIVE ANCHOR SYSTEM OR EQUAL. SPECIAL INSPECTION REQUIRED FOR CONCRETE ANCHOR







RICHARD NEET, P.E. PE# 86488 CA# 9885

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OCTOBER 31, 2023

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OVERHEAD DOORS,

REDI-STORM 16 STEEL ROLLING DOOR RGE/SMALL MISSILE IMPACT RESISTANCE ORIDA BUILDING CODE 8TH ED. (2023)

ALPINE

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SCALE: NTS UNLESS NOTED



TYPE	DOOR WIDTH	SLAT	D = BOLT DIA., S = BOLT SPACING (in) MAXIMUM Pt = BOLT TENSION FORCE, Ps = BOLT SHEAR FORCE SLIP								DEFL.	W'BAR THICK	RIVETS	WELD LEN.	NET REACT FORCE / ft.									
MOUNT	(ft-in)	(ft-in)	а	b	С	d	е	f	9	(in)	1D (in)	1S (in)	1Pt (lbs)	1Pv (lbs)	2D (in)	2S (in)	2Pt (lbs)	2Pv (lbs)	(in)	(in)	NO/DIA.	(in)	Fx	Fy
F	16'-0" 15'-0" 14'-0" 13'-0"	0.0280" 0.0280" 0.0280" 0.0280"	1.6875 1.6875 1.6875 1.6875	1.6875 1.625 1.557 1.469	1.0625 1.0625 1.0625 1.0625	1.375 1.375 1.375 1.375	0.9375 0.9375 0.9375 0.9375	N/A N/A N/A N/A	N/A N/A N/A	0.5 0.4375 0.370 0.281	0.5 0.5 0.5 0.5	11 11 12 12	6796 6407 6623 6580	384 351 348 316	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	8.54 7.77 6.91 5.81	0.5 0.5 0.5 0.5	4 / 0.25 4 / 0.25 4 / 0.25 4 / 0.25	3 3 3	2379 2259 2159 2173	418 383 348 316
	12'-0" 16'-0"	0.0280"	1,375	1.406	0.875	1.375	0.9375	N/A N/A	N/A N/A	0.219	0.5	12	6504	282	N/A 0.625	N/A 10	N/A 5668	N/A 1967	4.93 8.53	0.5	4 / 0.25	3	2109	282
E	15'-0" 15'-0" 14'-0" 13'-0"	0.0280" 0.0280" 0.0280" 0.0280"	1.6875 1.6875 1.6875 1.6875	1.6673 1.62 1.547 1.469 1.406	1.0625 1.0625 1.0625 1.0625 0.875	1.375 1.375 1.375 1.375 1.375	0.9375 0.9375 0.9375 0.9375 0.75	1.75 1.75 1.75 1.75 1.50	1.375 1.375 1.375 1.375 1.375	0.35 0.4375 0.360 0.281 0.219	0.5 0.5 0.5 0.5 0.5	11 12 12 12	6349 6663 6509 6422	348 347 314 279	0.625 0.625 0.625 0.625	10 10 11 11 11	5386 5757 5683 5904	1866 1994 1970 2429	7.75 6.8 5.77 4.9	0.5 0.5 0.5 0.5 0.5	4 / 0.25 4 / 0.25 4 / 0.25 4 / 0.25 4 / 0.25	3 3 3 3	2239 2175 2149 2082	380 347 314 279
Z	16'-0" 15'-0" 14'-0" 13'-0"	0.0280" 0.0280" 0.0280" 0.0280" 0.0280"	1.6875 1.6875 1.6875 1.6875 1.375	1.6875 1.625 1.5625 1.469 1.406	1.0625 1.0625 1.0625 1.0625 0.875	1.375 1.375 1.375 1.375 1.375	0.875 0.875 0.875 0.875 1.25	1.4375 1.4375 1.4375 1.4375 1.25	2.0 2.0 2.0 2.0 2.0 2.0	0.5 0.4375 0.375 0.281 0.219	0,5 0,5 0,5 0,5 0,5	10 11 11 11 11 16	6478 6716 6366 6320 6328	349 351 319 290 376	0.625 0.5 0.5 0.5 0.5	16 10 11 11 11	4570 2695 2814 2800 2498	3172 1883 1979 1992 2109	8.54 7.74 6.91 5.79 4.92	0.5 0.5 0.5 0.5 0.5	4 / 0.25 4 / 0.25 4 / 0.25 4 / 0.25 4 / 0.25	3 3 3 3 3	2379 2259 2159 2173 2109	418 383 348 316 282
Zc	16'-0" 15'-0" 14'-0" 13'-0" 12'-0"	0.0280" 0.0280" 0.0280" 0.0280" 0.0280"	1.6875 1.6875 1.6875 1.6875 1.375	1.750 1.625 1.5625 1.50 1.406	1.0625 1.0625 1.0625 1.0625 0.875	1,375 1,375 1,375 1,375 1,375	0.875 0.875 0.875 0.875 1.25	1.4375 1.4375 1.4375 1.4375 1.25	2.0 2.0 2.0 2.0 2.0 2.0	0.5625 0.4375 0.375 0.3125 0.25	0.5 0.5 0.5 0.5 0.5	10 10 11 11 11 16	6409 6454 6726 6379 6099	358 333 335 303 381	0.625 0.625 0.625 0.625 0.5	10 10 10 10 10 8	2822 2850 2703 2567 1605	1944 1993 1903 1819 1350	9.2 7.87 7.05 6.2 5.3	0.5 0.5 0.5 0.5 0.5	4 / 0.25 4 / 0.25 4 / 0.25 4 / 0.25 4 / 0.25	3 3 3 3 3	2333 2391 2283 2183 2025	429 400 365 330 286
-															WELD SIZE (in)	WELD PITCH (in)	WELD LENGTH (in)							
Ew	16'-0" 15'-0" 14'-0" 13'-0"	0.0280" 0.0280" 0.0280" 0.0280" 0.0280"	1.6875 1.6875 1.6875 1.6875 1.375	1.6875 1.625 1.5625 1.469 1.4375	1.0625 1.0625 1.0625 1.0625 0.875	1.375 1.375 1.375 1.375 1.375	0.9375 0.9375 0.9375 0.9375 0.75	1.625 1.625 1.625 1.625	N/A N/A N/A N/A N/A	0.5 0.4375 0.375 0.281 0.219	0.5 0.5 0.5 0.5 0.5	11 11 12 12 12	6776 6387 6709 6556 6489	383 350 348 315 281	1/4 1/4 1/4 1/4 1/4	12 12 12 12 12	2 2 2 2	2372 2252 2189 2165 2100	8.57 7.76 6.81 5.80 4.91	0.5 0.5 0.5 0.5	4 / 0.25 4 / 0.25 4 / 0.25 4 / 0.25 4 / 0.25	3 3 3	2372 2252 2189 2165 2100	382 348 315 281

NOTE FOR ALL STEEL BOLTS:

- 1. PROVIDE STD WASHERS BACK & FRONT AND NUT, TYP.
- 2. PROVIDE (5) PITCHED PAST THE THREAD PLANE.
- 3. PROVIDE 3X BOLT DIAMETER MINIMUM EDGE DISTANCE TO ANY STEEL EDGE, UNLESS NOTED OTHERWISE.

PRODUCT RENEWED as complying with the Florida Building Code 23-1024.02 NOA-No.

Expiration Date 12/11/2028

Ishaq I. Chands Miami-Dade Product Control

EXPRESS.

ALPINE OVERHEAD DOORS, INC.

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CHNICAL CHANGES	MRT	RWN	10
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SCALE: NTS UNLESS NOTED



