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

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

NOTICE OF ACCEPTANCE (NOA)

Wayne Dalton a Div. of Overhead Door Corporation
3395 Addison Drive
Pensacola, FL 32514

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 C20 and C24 Code 2501 Steel Sectional Garage Door up to 14'-2" Wide with Optional EPS Insulation and Impact Resistant Glazing

APPROVAL DOCUMENT: Drawing No. **361778**, titled "Windload Commercial Sectional Steel Door, C20 and C24, +50/-56PSF Dade County, 14'2" Max. Width", sheets 1 through 4 of 4, dated 04/23/2018, with revision P01 dated 07/19/2018, prepared by Wayne Dalton a Div. of Overhead Door Corporation, signed and sealed by Dwayne J. Kornish, P.E., bearing the Miami-Dade County Product Control approval stamp with the NOA number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large & 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.

This NOA consists of this page 1, evidence page E-1, as well as approval document mentioned above.

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

MIAMI-DADE COUNTY APPROVED

10/23/2018

NOA No: 18-0122.03
Expiration Date: November 1, 2023
Approval Date: November 1, 2018

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **361778**, titled "Windload Commercial Sectional Steel Door, C20 and C24, +50/-56PSF Dade County, 14'2" Max. Width", sheets 1 through 4 of 4, dated 04/23/2018, with revision P01 dated 07/19/2018, prepared by Wayne Dalton a Div. of Overhead Door Corporation, signed and sealed by Dwayne J. Kornish, P.E.

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) Forced Entry Test, per FBC, TAS 202-94
   5) Tensile Test per ASTM E8

   along with marked-up drawings of a 14'-2" Wide Models C20 and C24 Steel Sectional Doors, prepared by Intertek, Test Report No. **G6343.01-801-18-R2**, dated 10/24/2017, with revision dated 07/28/2018, signed and sealed by Tyler Westerling, P.E.
2. Test report on salt spray exposure, per ASTM B117-16 on G40 and G90 coupons, prepared by Intertek, Report No. **I1314.01-106-18R0**, dated 05/11/2018, signed by Gary T. Hartman.

C. CALCULATIONS

1. Anchorage verification calculations prepared by Overhead Door Engineering, dated 07/18/2018, signed and sealed by Dwayne J. Kornish, P.E.

D. MATERIAL CERTIFICATIONS

1. Test report on the EPS Insulation, D.F. Self-Ignition Temperature per ASTM D1929-2016, Test Report # **103445527MID-002**, prepared by Intertek, dated 03/23/2017, signed by Bryan Bowman.
2. UL evaluation report on Styropek EPS insulations' Surface Burning Characteristics (Flame Spread and Smoke Density Index) per ANSI/UL723 (ASTM E84), prepared by UL Inc., Test Report # **UL ER38219-01** and dated 04/08/2015.
3. Notice of Acceptance No. **17-0410.01,** issued to Covestro, LLC, for their Makrolon Polycarbonate Sheets, approved on 06/08/2017 and expiring on 08/27/2022.

E. QUALITY ASSURANCE

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

F. STATEMENTS

1. Statement letter of code conformance to the 6th edition (2017) FBC issued by Overhead Door Corporation, dated 09/12/2018, signed and sealed by Dwayne J. Kornish, P.E.
2. No financial interest letter issued by Overhead Door Corporation, dated 09/12/2018, signed and sealed by Dwayne J. Kornish, P.E.

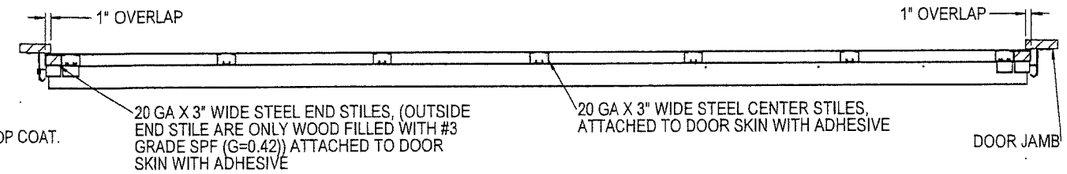
10/23/2018

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No: 18-0122.03
Expiration Date: November 1, 2023
Approval Date: November 1, 2018

NOTES: (UNLESS OTHERWISE SPECIFIED)

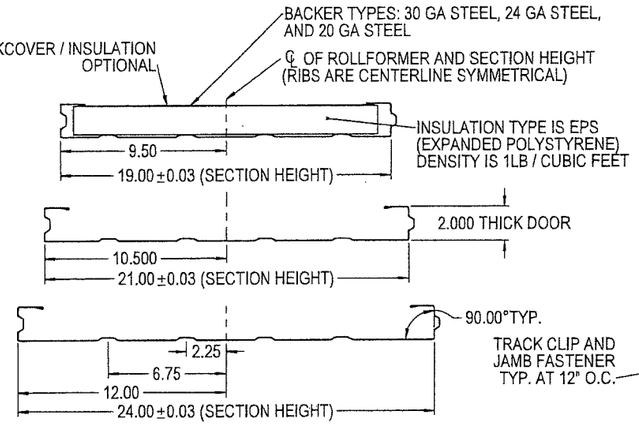
1. RATED DESIGN LOAD +50/-56 PSF.
2. SECTION HEIGHTS MAY VARY TO CREATE VARIOUS DOOR HEIGHTS, 24" MAXIMUM SECTION HEIGHT.
3. MINIMUM 1" OVERLAP ON BOTH JAMBS REQUIRED TO MEET NEGATIVE DESIGN PRESSURES.
4. TESTED IN ACCORDANCE WITH DADE COUNTY PROTOCOLS TAS 201-94, TAS 202-94, & TAS 203-94.
5. DOOR SKIN MUST BE 50,000 PSI MIN. YIELD STRENGTH.
6. JAMB LOAD CALCULATIONS:
   (1/2 DOOR WIDTH)(1 FT OF HEIGHT)(DESIGN PRESSURE)
   (7.067)(1 FOOT)(50.00 AND -56.00)(353.4/-395.8) LB.
7. JAMB FASTENER REQUIREMENTS:
   F_X=(1/2 DOOR WIDTH)(1 FT OF HEIGHT)(DESIGN PRESSURE)
   F_X=354 LBS.
8. DOOR SKIN MATERIAL SHALL BE GALVANIZED ACCORDING TO ASTM A-525 TO G40 MIN, WITH BAKED-ON PRIMER, AND BAKED-ON POLYESTER PAINT TOP COAT.
9. FOR ANCHORING INTO WOOD,USE ONE 5/16" LAG SCREW PER TRACK CLIP WITH 1-1/2" EMBEDMENT INTO SOUTHERN PINE (G=0.55) OR BETTER.
10. APPROVED INSULATED AND NON-INSULATED: C-24 (24 GA), C-20 (20 GA).
11. WELD SLOT ON ANGLE AND 3/32" X 1" LONG ON 12" CENTERS. "IF WELDING MOUNTING OPTION IS CHOSEN."
12. LIFT UP MECHANISM-MANUAL, CHAIN LIFT, OR OPERATOR IS NOT PART OF THIS APPROVAL.
13. STANDARD LIFT, HIGH LIFT, VERTICAL LIFT, AND LOW HEADROOM TRACK IS AVAILABLE. FOR LOW HEADROOM LIFT CONDITIONS TOP BRACKET SHALL BE 13 GA LHR 7/4 TOP BRACKET WITH A MIN OF (3) 1/4 - 14 X 7/8" SELF DRILLING CRIMPTITE SCREWS IN LIEU OF THE BRACKET SHOWN ON DRAWING. U-BAR ON TOP SECTION SHALL BE INSTALLED ON TOP OF LHR TOP BRACKETS.
14. ATTACH STRUTS WITH (4) 1/4-14x7/8" SELF DRILLING CRIMPTITE SCREWS AT ALL STILE LOCATIONS, TYP. LOCATED WITHIN 6" , +/- 3" FROM TOP OF SECTION.
15. KEY LOCK, SIDE LOCK, OR OPERATOR REQUIRED.
16. EXHAUST PORTS- OPTIONAL UP TO 6 PER BOTTOM SECTION.
17. IMPACT RESISTANT GLAZING OPTION- IMPACT RESISTANT GLAZING SYSTEM MAY BE INSTALLED INTERMEDIATE SECTION ONLY. GLAZING SHALL BE 1/4" POLYCARBONATE. 13-3/4" X 20-1/8" MAXIMUM SIZE, FASTENED WITH # 8 X 1" SMS: 3X MAX ALONG THE HORIZONTAL AND 2X MAX ALONG THE VERTICAL. SEE DETAIL F-F ON SHEET 2 FOR ASSEMBLY DETAILS.
18. THE DESIGN OF THE SUPPORTING STRUCTURAL ELEMENTS SHALL BE THE RESPONSIBILITY OF THE PROFESSIONAL OF RECORD FOR THE BUILDING OR STRUCTURE AND IN ACCORDANCE WITH CURRENT BUILDING CODES FOR THE LOADS LISTED ON THIS DRAWING.

REVISIONS				
ER	REV	DESCRIPTION	DATE	APVL
ER 31715	P01	NEW DRAWING	7/19/18	ESC

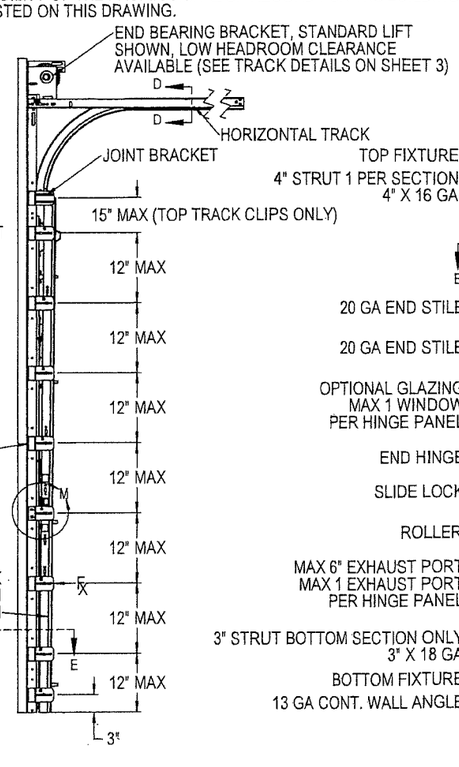


SECTION B-B
SCALE 1 : 12

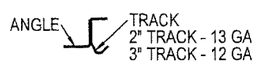
PRODUCT APPROVED
as complying with the Florida Building Code
NOA-No. 18-0122.03
Approval Date 11/01/2018
By
Miami-Dade Product Control



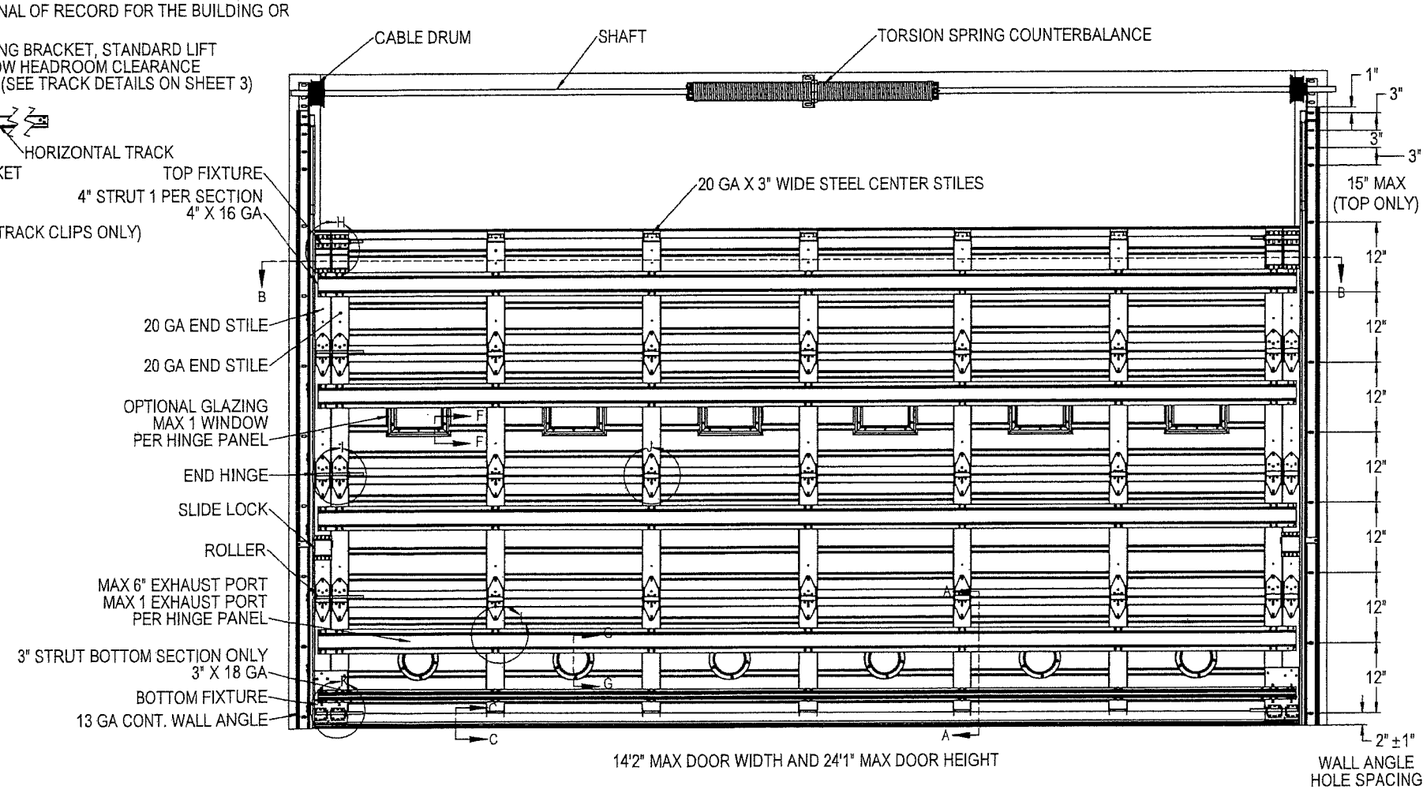
SECTION A-A
SCALE 1 : 4



SECTION C-C
SCALE 1:4



SECTION D-D
SCALE 1:4



14'2" MAX DOOR WIDTH AND 24'1" MAX DOOR HEIGHT

DWAYNE J KORNISH
LICENSE
No. 77945
STATE OF FLORIDA
PROFESSIONAL ENGINEER

DWAYNE J. KORNISH, PE
4576 COUNTY ROAD 160
MOUNT HOPE, OHIO
FL PE 77945 TX PE 117868

PROFESSIONAL ENGINEER'S SEAL PROVIDED ONLY FOR VERIFICATION OF WINDLOAD CONSTRUCTION DETAILS.

DOOR WIDTH	NUMBER OF CENTER STILES
10'-3" - 12'-2"	4
12'-3" - 14'-2"	5

THIRD ANGLE PROJECTION

A DIVISION OF OVERHEAD DOOR CORP
3395 ADDISON DRIVE
PENSACOLA, FLORIDA 32514
(850)-474-9890

UNLESS OTHERWISE SPECIFIED

INTERPRET DIMS & TOLS PER ASME Y14.5M
ALL DIMS ARE IN INCHES
DO NOT SCALE
DIMS CIRCLED WITH SYMBOL '⬭' ARE CRITICAL TO QUALITY DESIGN FEATURES & MUST MEET APPLICABLE IN-PROCESS INSPECTION STANDARDS.

TOLERANCES:
.X = ± .1
.XX = ± .03
.XXX = ± .010
ANGULAR = ± .5 °
HOLES:
< Ø.251 = +.004/-.003
Ø.251-Ø.500 = +.006/-.003
> Ø.500 = +.008/-.003

ALL GEOMETRY GOVERNED BY 3D CAD DATABASE: 361778

	APPROVALS	DATE
DRAWN	E. CONRAD	4/23/18
CHECKED	D. KORNISH	-
APPROVED	-	-
MATERIAL	-	
FINISH	-	

WINDLOAD SPECIFICATION
OPTION CODE 2501

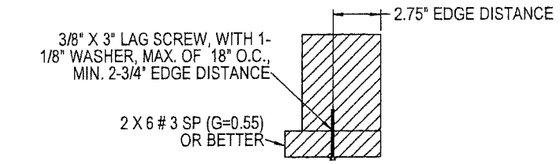
Wayne Dalton GARAGE DOORS
PENSACOLA, FLORIDA

DESCRIPTION
WINDLOAD COMMERCIAL SECTIONAL STEEL DOOR, C20 AND C24, +50/-56PSF DADE COUNTY, 14'2" MAX WIDTH

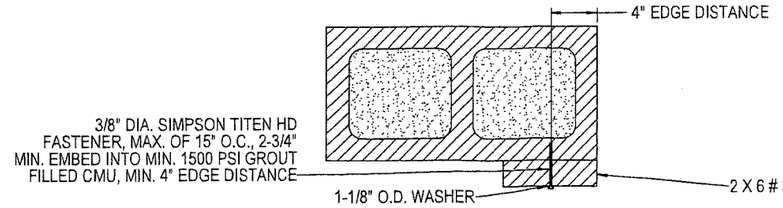
SIZE	DWG NO.	REV
D	D-361778	P-00

SCALE 1:12 | UOM = EA | SHEET 1 OF 4

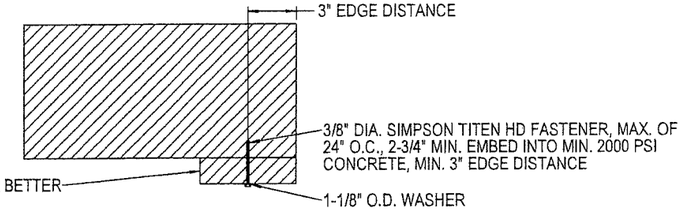
ENG F.20.041D-(FORM REV A)



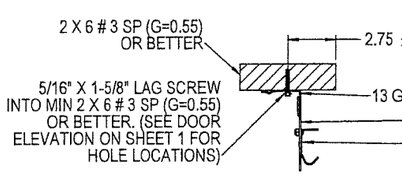
WOOD MOUNTED TO # 3 SOUTHERN PINE SUBSTRATE



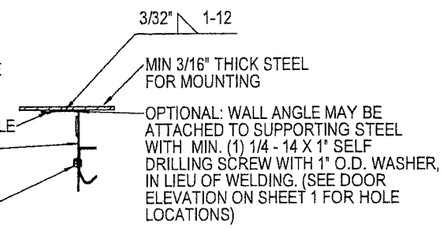
WOOD MOUNTED TO GROUT FILLED MASONRY BLOCK DETAIL



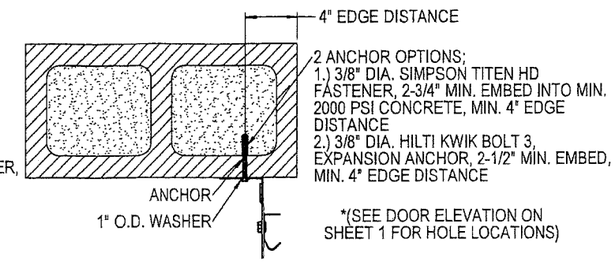
WOOD MOUNTED TO 2000 PSI CONCRETE DETAIL



MOUNTING TO WOOD JAMB DETAIL

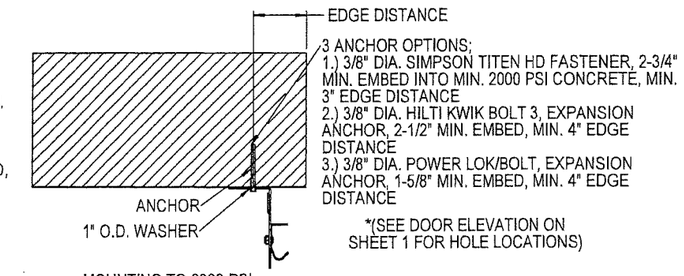


MOUNTING TO STEEL JAMB DETAIL

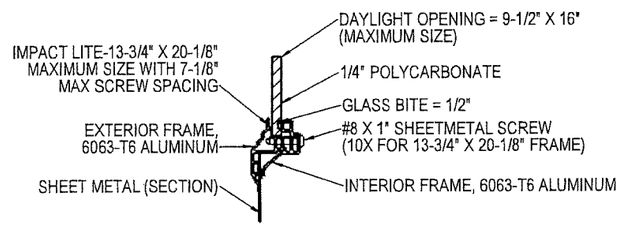


MOUNTING TO GROUT FILLED MASONRY BLOCK DETAIL

SECTION E-E
SCALE 1 : 4

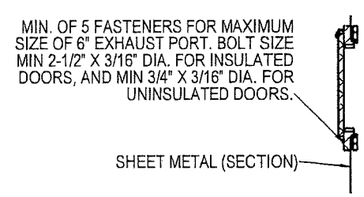


MOUNTING TO 2000 PSI CONCRETE DETAIL



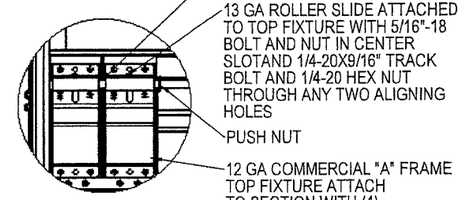
WINDOW DETAIL

SECTION F-F
SCALE 1 : 2

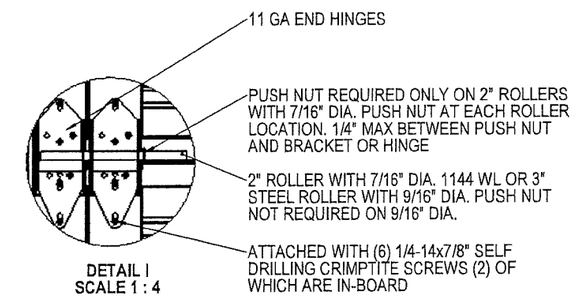


EXHAUST PORT DETAIL

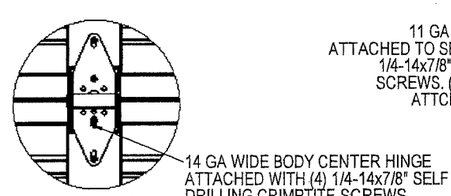
SECTION G-G
SCALE 1 : 4



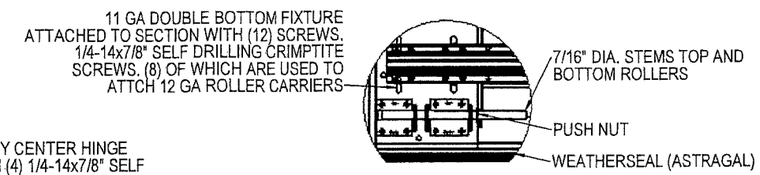
DETAIL H
SCALE 1 : 4



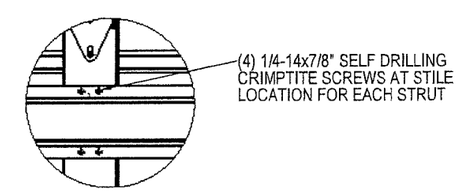
DETAIL I
SCALE 1 : 4



DETAIL J
SCALE 1 : 4



DETAIL K
SCALE 1 : 4



DETAIL L
SCALE 1 : 4

DWAYNE J KORNISH
LICENSE
No. 77945
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
9/21/2018

DWAYNE J. KORNISH, PE
4576 COUNTY ROAD 160
MOUNT HOPE, OHIO
FL PE 77945 TX PE 117868

PROFESSIONAL ENGINEER'S SEAL PROVIDED ONLY FOR VERIFICATION OF WINDLOAD CONSTRUCTION DETAILS.

PRODUCT APPROVED
as complying with the Florida Building Code
NOA-No. 18-0122.03
Approval Date 11/01/2018
By
Miami-Dade Product Control

THIRD ANGLE PROJECTION

A DIVISION OF OVERHEAD DOOR CORP
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.XXX = ± .010
ANGULAR = ± .5 °
HOLES:
< Ø.251 = +.004/-.003
Ø.251-Ø.500 = +.006/-.003
> Ø.500 = +.008/-.003

APPROVALS		DATE
DRAWN	E. CONRAD	4/23/18
CHECKED	D. KORNISH	-
APPROVED	-	-
MATERIAL	-	
FINISH	-	

WINDLOAD SPECIFICATION OPTION CODE 2501

ALL GEOMETRY GOVERNED BY 3D CAD DATABASE: 361778

Wayne Dalton GARAGE DOORS — PENSACOLA, FLORIDA

DESCRIPTION
WINDLOAD COMMERCIAL SECTIONAL STEEL DOOR, C20 AND C24, +50/-56PSF DADE COUNTY, 14'2" MAX WIDTH

SIZE	DWG NO.	REV
D	D-361778	P-00

SCALE 1:12 | UOM = EA | SHEET 2 OF 4

ENG F.20.041D-(FORM REV A)

NOTES: (UNLESS OTHERWISE SPECIFIED)

1.ONE 4" STRUT PER SECTION, AND ONE 3" STRUT PER BOTTOM SECTION, ATTACHED WITH 1/4-14X7/8" SELF DRILLING CRIMPTITE SCREWS.

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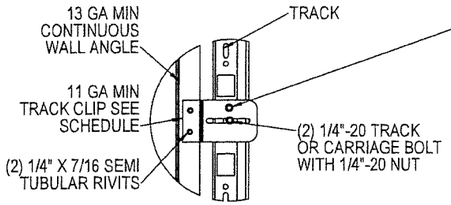
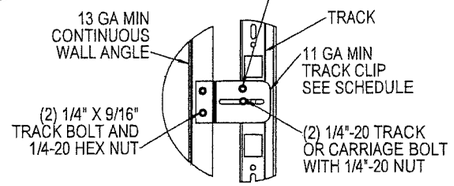
1/4" HOLE IS REQUIRED TO BE DRILLED THROUGH BOTH THE TRACK AND THE TRACK CLIP AT EACH TRACK CLIP LOCATION IN ORDER TO INSTALL SECOND 1/4-20x9/16" TRACK BOLT AND 1/4-20 HEX NUT

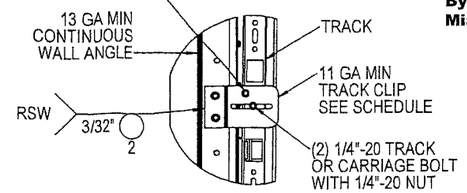


TYPICAL TRACK CLIP RIVETING DETAIL

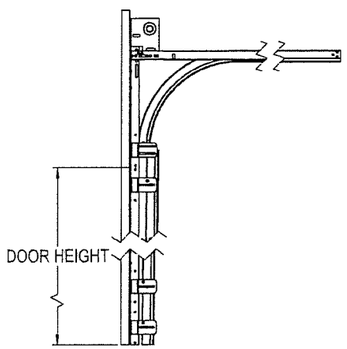


TYPICAL TRACK CLIP BOLTING DETAIL

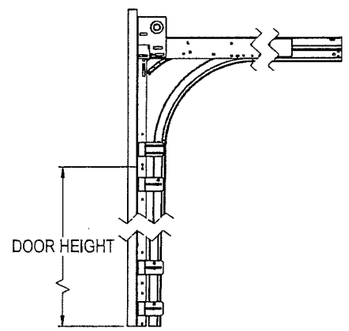
DETAIL M
SCALE 1 : 4



TYPICAL TRACK CLIP WELDING DETAIL

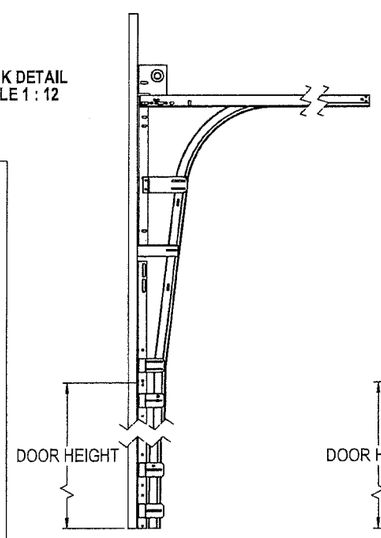


STANDARD LIFT TRACK DETAIL

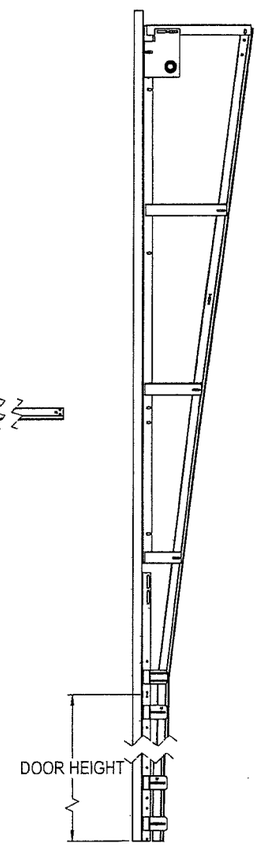


LOW HEADROOM TRACK DETAIL

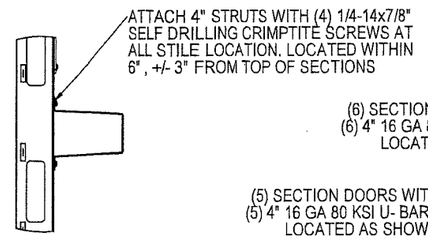
TRACK DETAIL
SCALE 1 : 12



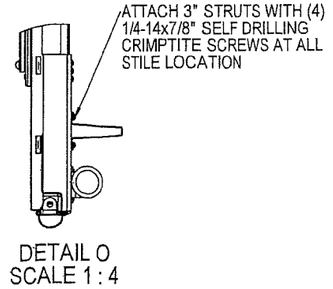
HIGH LIFT TRACK DETAIL



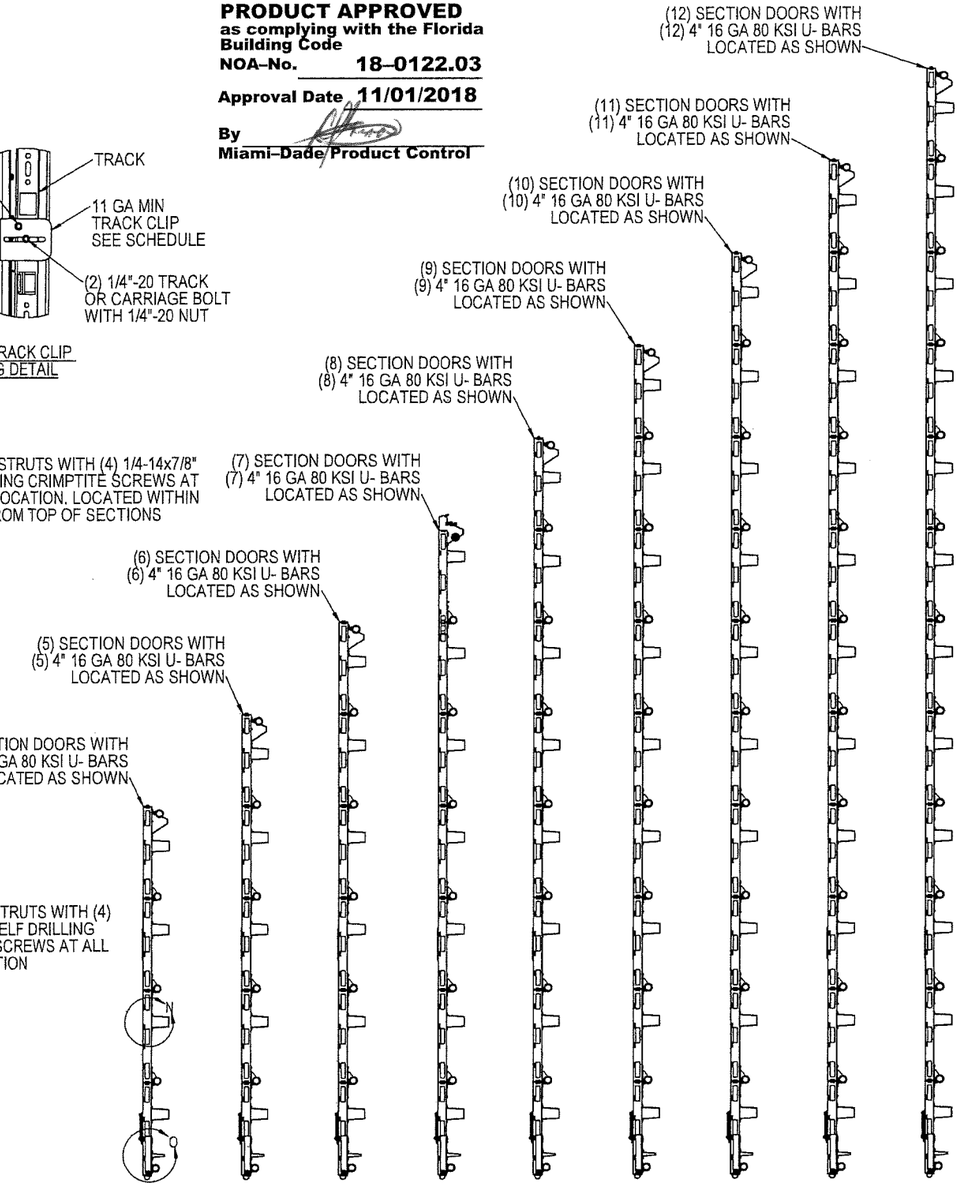
VERTICAL LIFT TRACK DETAIL



DETAIL N
SCALE 1 : 4



DETAIL O
SCALE 1 : 4



STRUT LOCATIONS
SCALE 1:16

DWAYNE J KORNISH
LICENSE
No. 77945
STATE OF FLORIDA
PROFESSIONAL ENGINEER

DWAYNE J. KORNISH, PE
4576 COUNTY ROAD 160
MOUNT HOPE, OHIO
FL PE 77945 TX PE 117868

PROFESSIONAL ENGINEER'S SEAL PROVIDED ONLY FOR VERIFICATION OF WINDLOAD CONSTRUCTION DETAILS.

THIRD ANGLE PROJECTION

A DIVISION OF OVERHEAD DOOR CORP
3395 ADDISON DRIVE
PENSACOLA, FLORIDA 32514
(850)-474-9890

UNLESS OTHERWISE SPECIFIED

INTERPRET DIMS & TOLS PER ASME Y14.5M
ALL DIMS ARE IN INCHES
DO NOT SCALE
DIMS CIRCLED WITH SYMBOL ' ' ARE CRITICAL TO QUALITY DESIGN FEATURES & MUST MEET APPLICABLE IN-PROCESS INSPECTION STANDARDS.

TOLERANCES:
.X = ± .1
.XX = ± .03
.XXX = ± .010
ANGULAR = ± .5 °
HOLES:
< Ø.251 = +.004/-.003
Ø.251-Ø.500 = +.006/-.003
> Ø.500 = +.008/-.003

ALL GEOMETRY GOVERNED BY 3D CAD DATABASE: 361778

APPROVALS		DATE
DRAWN	E. CONRAD	4/23/18
CHECKED	D. KORNISH	-
APPROVED	-	-
MATERIAL	-	
FINISH	-	

WINDLOAD SPECIFICATION
OPTION CODE 2501

Wayne Dalton GARAGE DOORS

PENSACOLA, FLORIDA

DESCRIPTION
WINDLOAD COMMERCIAL SECTIONAL STEEL DOOR, C20 AND C24, +50/-56PSF DADE COUNTY, 14'2" MAX WIDTH

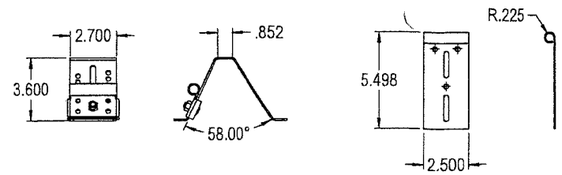
SIZE	DWG NO.	REV
D	D-361778	P-00

SCALE 1:12 | UOM = EA | SHEET 3 OF 4

ENG F.20.941D-(FORM REV A)

NOTES: (UNLESS OTHERWISE SPECIFIED)

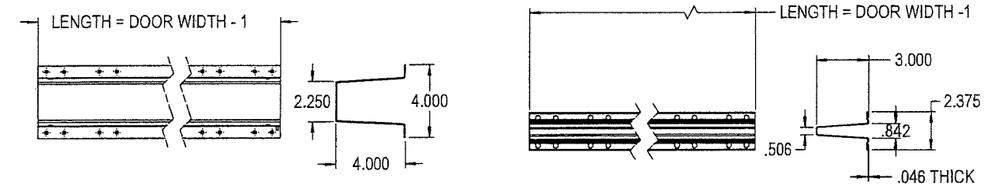
1. FOR DIMENSIONS AND NOTE REFERENCES, REFER TO INDIVIDUAL DRAWINGS.



A FRAME ASSY.
12 GA

LHR (7-4)
13 GA

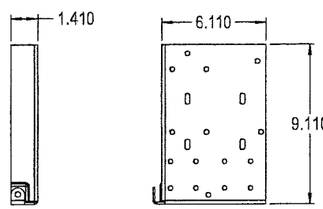
TOP FIXTURE DETAILS



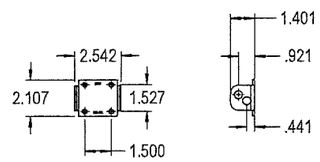
4" STRUT (UBAR)
80 KSI MIN. YIELD STRENGTH, 4" X 16 GA

3" STRUT OPEN WL (UBAR)
80 KSI MIN. YIELD STRENGTH, 3" X 18 GA

STRUT DETAILS

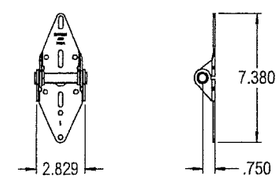


DOUBLE ENDSTILE
11 GA

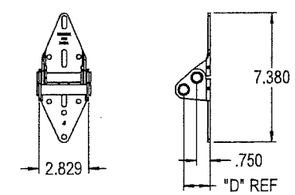


2" AND 3" ROLLER CARRIER
12 GA

BOTTOM FIXTURE DETAILS

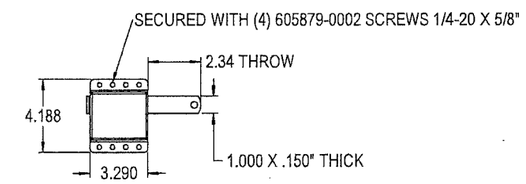


CENTER HINGE
14 GA



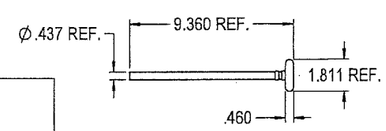
END HINGE
11 GA

HINGE DETAILS

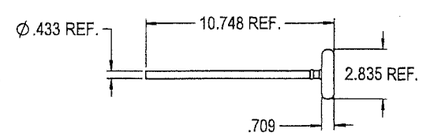


SIDE LOCK ASSY

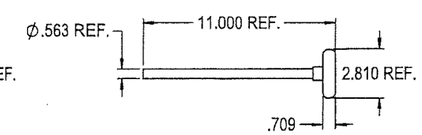
LOCK DETAILS



ROLLER ASSY. 2" WL 1144

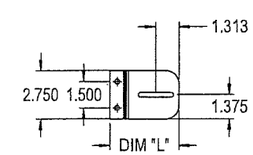


ROLLER ASSY. 3" 7/16" STEM

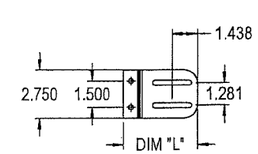


ROLLER ASSY. 3" 9/16" STEM

ROLLER STEM ASSY DETAILS



TRACK CLIP
11 GA



JOINT BRACKET
11 GA

BRACKET DETAILS

DWAYNE J KORNISH
LICENSE
No. 77945
STATE OF FLORIDA
PROFESSIONAL ENGINEER
9/28/2018

DWAYNE J. KORNISH, PE
4576 COUNTY ROAD 160
MOUNT HOPE, OHIO
FL PE 77945 TX PE 117868

PROFESSIONAL ENGINEER'S SEAL PROVIDED ONLY FOR VERIFICATION OF WINDLOAD CONSTRUCTION DETAILS.

PRODUCT APPROVED
as complying with the Florida Building Code
NOA-No. 18-0122.03
Approval Date 11/01/2018
By
Miami-Dade Product Control

THIRD ANGLE PROJECTION

A DIVISION OF OVERHEAD DOOR CORP
3395 ADDISON DRIVE
PENSACOLA, FLORIDA 32514
(850)-474-9890

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SCALE 1:12 | UOM = EA | SHEET 4 OF 4

ENG F.28.041D-(FORM REV A)