



MIAMI-DADE COUNTY
BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
 METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
 MIAMI, FLORIDA 33130-1563
 (305) 375-2901 FAX (305) 372-6339

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/buildingcode

Raynor Garage Doors
1101 East River Road
Dixon, IL 61021

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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: TradeMark Steel Sectional Garage Door up to 18'-2" wide

APPROVAL DOCUMENT: Drawing No. P-3308, titled "Spec, Wind Load TradeMark", sheets 1 through 3 of 3, dated 10/23/09, prepared by Raynor Garage Doors, signed and sealed by Richard A. Baumann, P.E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

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 and evidence pages E-1 and E-2, as well as approval document mentioned above.

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



[Signature]
 10/28/10

NOA No. 10-0420.02
 Expiration Date: October 20, 2015
 Approval Date: October 20, 2010
 Page 1

Raynor Garage Doors

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **P-3308**, titled "Spec, Wind Load TradeMark", sheets 1 through 3 of 3, dated 10/23/09, prepared by Raynor Garage Doors, signed and sealed by Richard A. Baumann, 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
Along with marked-up drawings and installation diagram of 16'x 7' TradeMark Sectional Steel Garage Doors, prepared by Hurricane Test Laboratory, LLC, Test Report No. **G493-1102-09**, dated 02/03/10, signed and sealed by Vinu J. Abraham, P.E.
2. Test report on Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94 of two (one TradeMark and one Showcase) 16'x 7' Sectional Garage Doors, prepared by Hurricane Test Laboratory, LLC, Test Report No. **G493-0706-10**, dated 08/10/10, signed and sealed by Vinu J. Abraham, P.E.
3. Test report on Tensile Test per ASTM E8, of steel sheet, prepared by Certified Testing Laboratories, Test Report No. 0037T, dated 01/20/10, signed and sealed by Ramesh Patel, P.E.
4. Test report on Salt Spray per ASTM B117 of painted G40 galvanized painted steel, prepared by Wendler Engineering Services, Inc., dated 04/12/10, signed and sealed by Richard A. Baumann, P.E.

C. CALCULATIONS

1. Jamb attachment verification calculations, prepared by Wendler Engineering Services, Inc., dated 04/13/10, signed and sealed by Richard A. Baumann, P.E.

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO)



09/28/10

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 10-0420.02

Expiration Date: October 20, 2015
Approval Date: October 20, 2010

Raynor Garage Doors

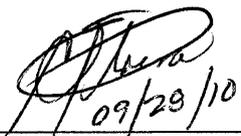
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code conformance with FBC 2007, issued by Wendler Engineering Services, Inc., dated 04/12/10, signed and sealed by Richard A. Baumann, P.E.
2. Statement letter of no financial interest issued by Wendler Engineering Services, Inc., dated 04/12/10, signed and sealed by Richard A. Baumann, P.E.



Carlos M. Utrera
09/29/10

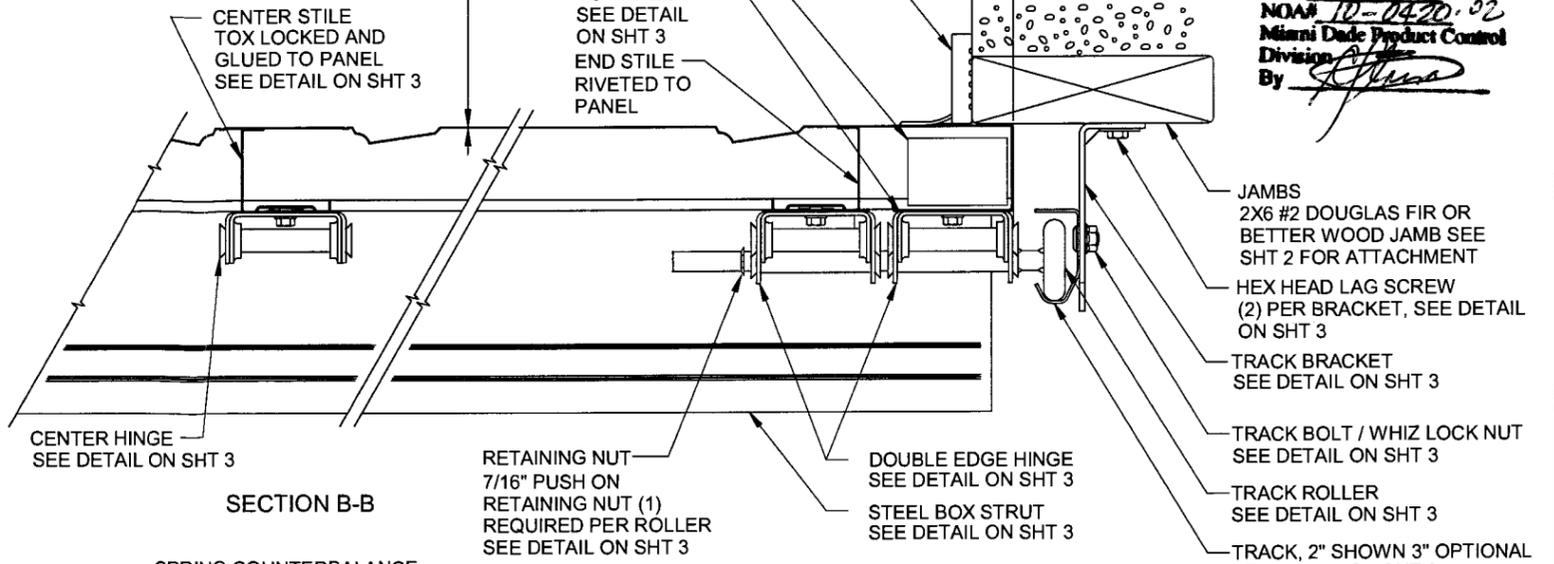
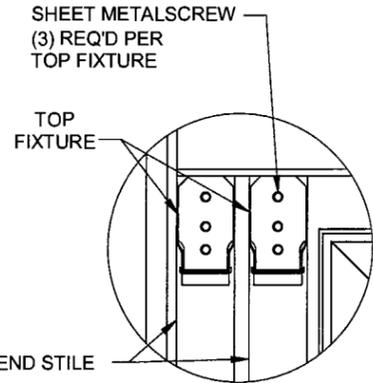
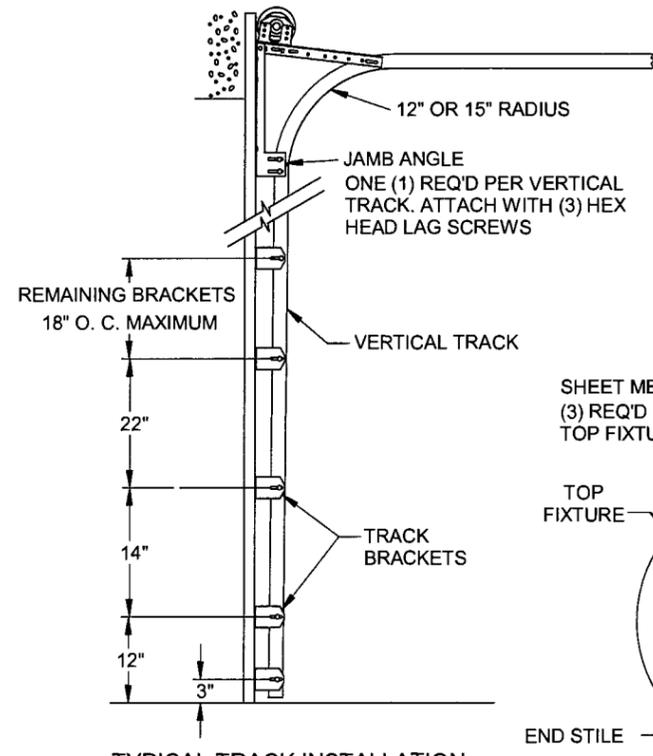
Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 10-0420.02
Expiration Date: October 20, 2015
Approval Date: October 20, 2010

STEEL SECTION
 TRADEMARK .023 THICK G-40 GALVANIZED STEEL
 WITH AN EPOXY PRIMER AND BAKED ON POLYESTER
 FINISH WHICH IS ROLL-FORMED WITH WOOD GRAIN
 TEXTURE AND STAMPED WITH EMBOSSED OR FLUSH
 PANELS. MINIMUM YIELD STRENGTH = 36140 PSI

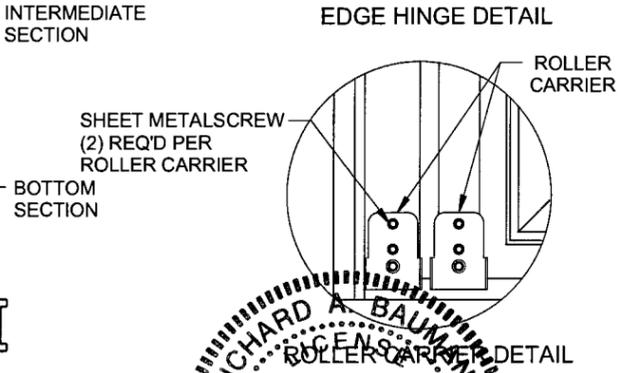
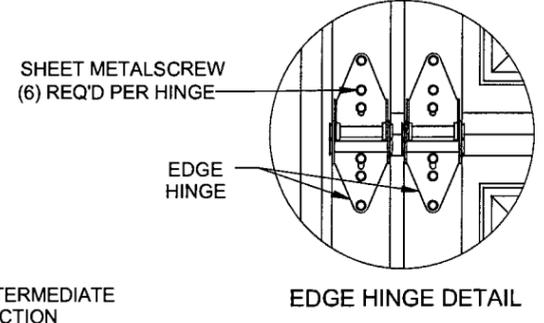
PERIMETER SEAL
 NAILED 8" O.C. WITH
 4d STEEL NAILS

BLOCKING
 2-1/8" X 1-1/2"
 END STILES
 TOX LOCKED
 TO PANEL
 SEE DETAIL
 ON SHT 3
 END STILE
 RIVETED TO
 PANEL

Approved as complying with the
 Florida Building Code
 Date 10/20/2010
 NOA# 10-0420-02
 Miami Dade Product Control
 Division
 By *[Signature]*



TYPICAL TRACK INSTALLATION
 NORMAL HEADROOM TRACK SHOWN, LOW HEADROOM, LIFT
 CLEARANCE AND VERTICAL LIFT TRACK AVAILABLE



TOP FIXTURE
 SEE DETAIL ON SHT 3

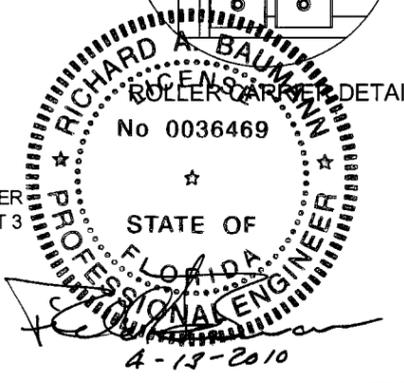
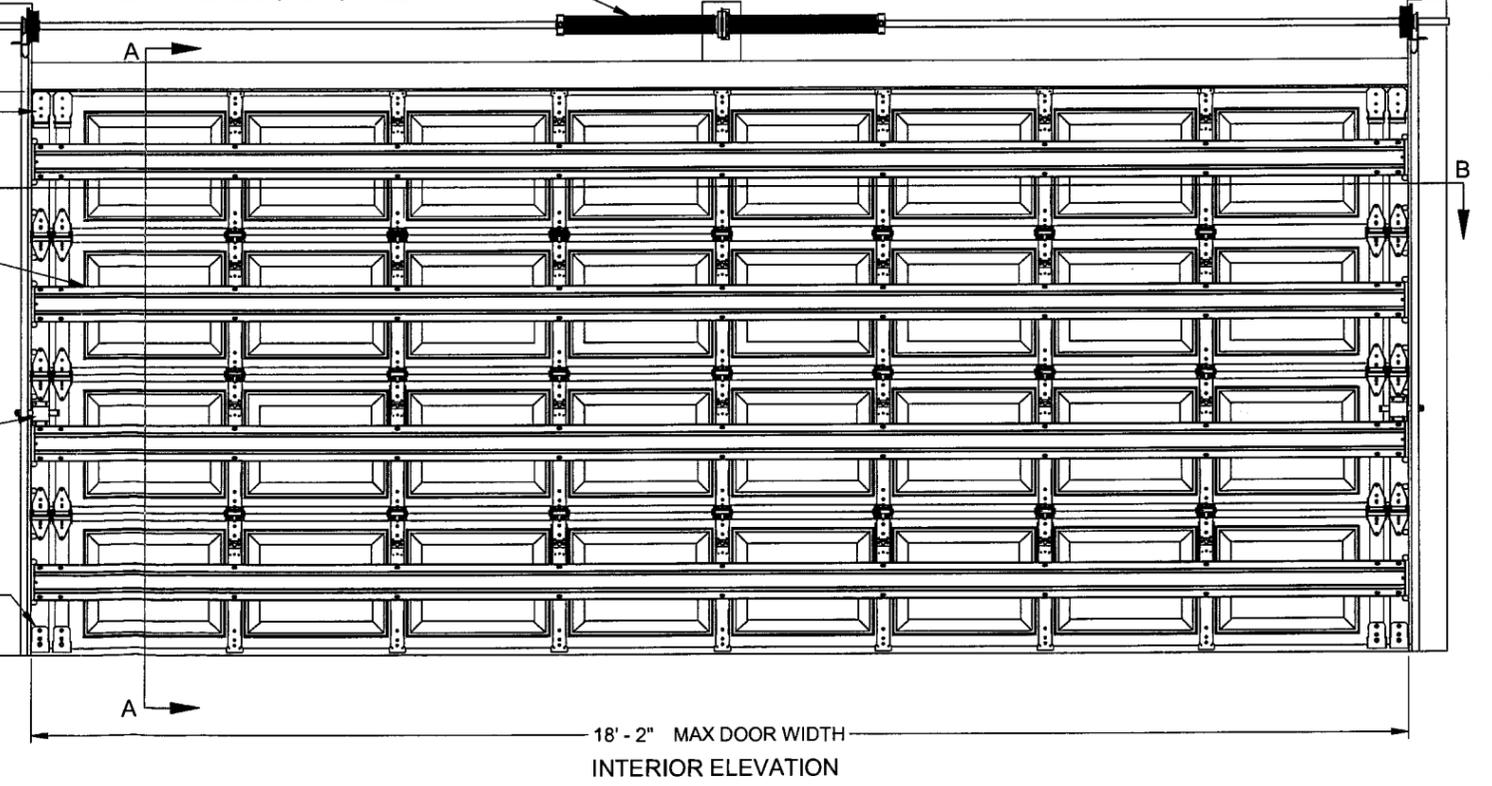
DOOR HEIGHT
 7'-0" HIGH
 SHOWN
 OTHER DOOR
 HEIGHTS
 AVAILABLE UP
 TO 16'-0" USING
 18" OR 21" HIGH
 SECTIONS

STEEL REINFORCEMENT
 ONE (1) BOX STRUT PER
 SECTION, FASTENED TO ALL
 CENTER AND END STILES
 USING (2) SHEET METAL
 SCREWS AT EACH
 LOCATION

INTERIOR LOCK
 TWO (2) REQ'D PER DOOR.
 LOCATE OPPOSITE EACH
 OTHER TO ENGAGE EACH
 TRACK 5/8" MIN. SEE DETAIL
 ON SHT 3

ROLLER CARRIER
 SEE DETAIL ON SHT 3

VENTS (OPTIONAL)
 VENT OPENINGS MAY BE
 LOCATED IN BOTTOM SECTION
 AS REQUIRED. 120 SQ. IN. MAX.



| DOOR WIDTH | DESIGN LOAD |
|--------------|---------------|
| UP TO 18'-2" | + 43.5 - 50.0 |

DOORS TESTED PER TAS 202
 FOR STATIC AIR PRESSURE
 TESTED PER TAS 201 AND TAS 203 FOR LARGE
 MISSILE IMPACT AND CYCLIC WIND PRESSURE
 LARGE MISSILE IMPACT RESISTANT

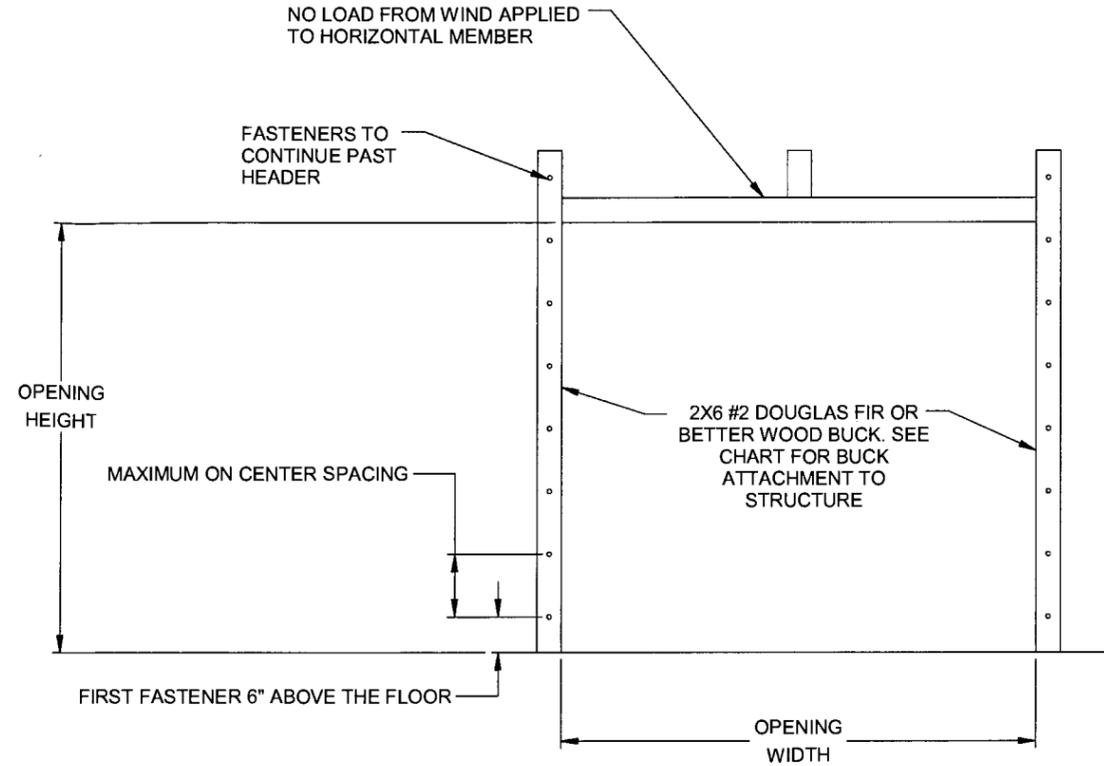
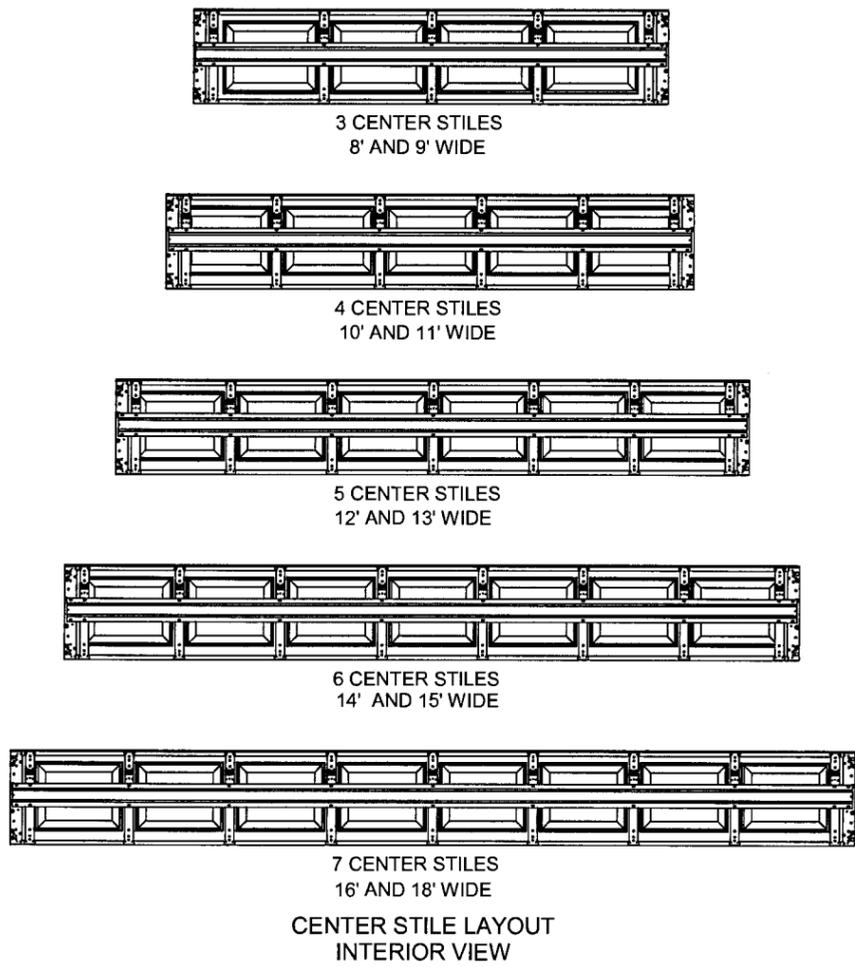
| REV. | DESCRIPTION | ECO | DATE |
|------|---------------------|-----|----------|
| A | PRELIMINARY RELEASE | | 10/23/09 |

SCALE: NONE
 DRAWN BY: G. WEDEKIND
 CHECKED BY: G. WEDEKIND
 DATE: 10/23/09
 ECO:



TITLE: SPEC, WINDLOAD TRADEMARK
 NO. P-3308
 SHEET 1 OF 3
 REV A

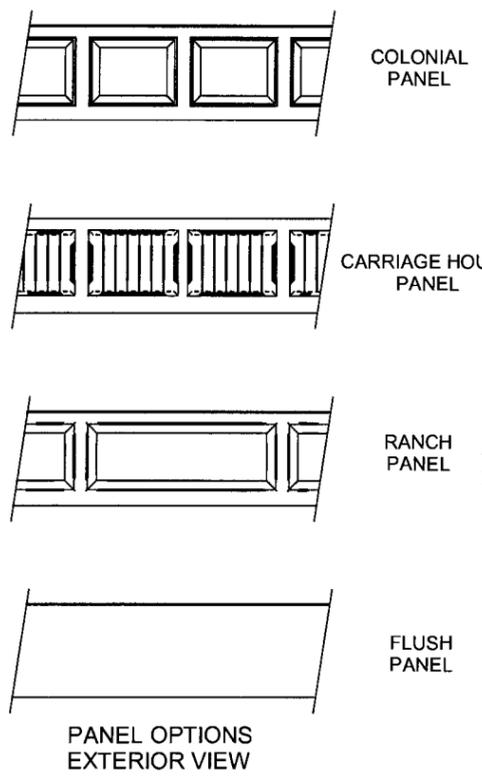
SECTION A-A
 4 SECTION HIGH DOOR SHOWN



JAMB ATTACHMENT NOTES

1. 1/4" DIAMETER ANCHORS REQUIRE 5/8" MIN. O.D. STEEL WASHER.
2. 5/16" AND 3/8" DIAMETER FASTENERS REQUIRE 7/8" MIN O.D. STEEL WASHER.
3. MAXIMUM POSITIVE LOAD PER JAMB = (18' X 43.5 PSF) / 2 = 391.5 LBS PER FOOT
4. MAXIMUM NEGATIVE LOAD PER JAMB = (18' X 50 PSF) / 2 = 450 LBS PER FOOT.
5. DESIGN OF THE SUPPORTING STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE BUILDING DESIGNER AND SHALL BE DESIGNED FOR THE JAMB LOADS LISTED IN NOTES 3 AND 4.

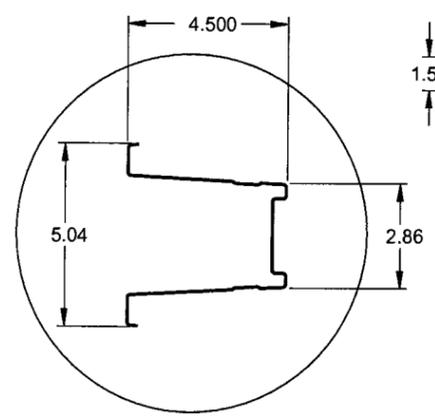
Approved as complying with the
Florida Building Code
Date 10/20/2010
NOA# 10-0470.02
Miami Dade Product Control
Division
By [Signature]



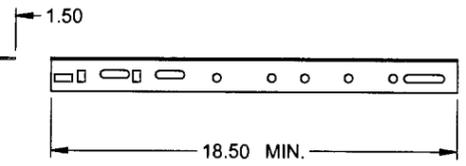
RICHARD A. BAUMANN
LICENSE
No 0036469
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
4-13-2010

| JAMB MATERIAL | FASTENER TYPE | MINIMUM EMBEDMENT | MINIMUM EDGE DISTANCE | ALLOWABLE TENSION LOAD | MAXIMUM ON CENTER SPACING |
|--------------------------|-------------------------------------|-------------------|-----------------------|------------------------|---------------------------|
| GROUT FILLED BLOCK | 5/16" DIA X 3 1/4" LONG ITW TAPCON | 1 3/4" | 4" | 487 | 14-3/4" |
| 3192 PSI CONCRETE | 1/4" DIA X 3 1/4" LONG ITW TAPCON | 1 3/4" | 1" | 510 | 15-1/4" |
| 2899 PSI CONCRETE | 5/16" DIA X 3 3/4" LONG ITW TAPCON | 2 1/4" | 1 9/16" | 713 | 21-1/2" |
| 2000 PSI CONCRETE | 3/8" DIA X 3 1/2" POWER STUD ANCHOR | 1 5/8" | 1 7/8" | 360 | 10-3/4" |
| 4000 PSI CONCRETE | 3/8" DIA X 3 1/2" POWER STUD ANCHOR | 1 5/8" | 1 7/8" | 570 | 17-1/4" |
| WOOD DOUGLAS FIR (G=.46) | 5/16" DIA. X 3 1/2" | 1 1/2" | 1" | 352 | 10-1/2" |
| WOOD SYP (G=.55) | 5/16" DIA. X 3 1/2" | 1 1/2" | 1" | 460 | 13-3/4" |

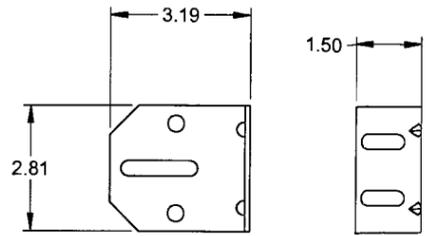
| | | | | | | |
|------|-------------|-----|------|-------------------------|---|---------------------------------|
| REV. | DESCRIPTION | ECO | DATE | SCALE: NONE | 1101 EAST RIVER ROAD DIXON, IL 61021 | TITLE: SPEC. WINDLOAD TRADEMARK |
| | | | | DRAWN BY: G. WEDEKIND | | NO. P-3308 |
| | | | | CHECKED BY: G. WEDEKIND | | |
| | | | | DATE: 10/23/09 | | REV A |



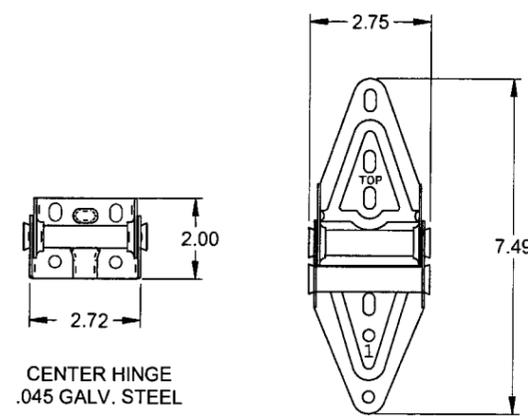
STEEL BOX STRUT DETAIL
18 GA. (.049" MIN) GALVANIZED
HIGH TENSILE STEEL
80 KSI MINIMUM YIELD



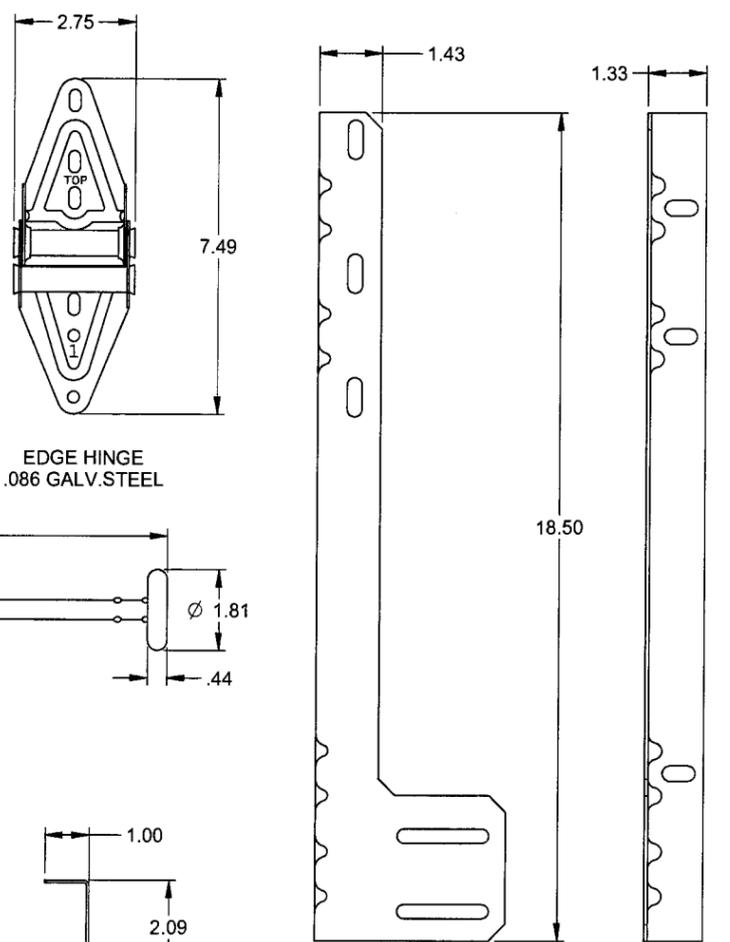
HORIZONTAL TRACK ANGLE
.086 GALV. STEEL
HORIZONTAL ANGLE ATTACHED WITH
5/16" X 3/4" TRACK BOLT AND WHIZ NUT



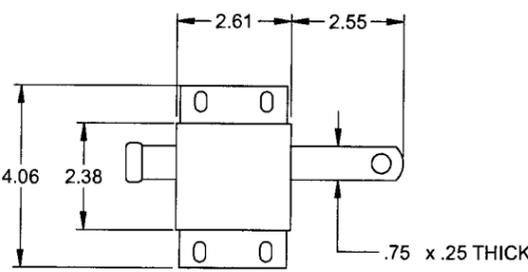
3" TRACK BRACKET
.116 GALV. STEEL



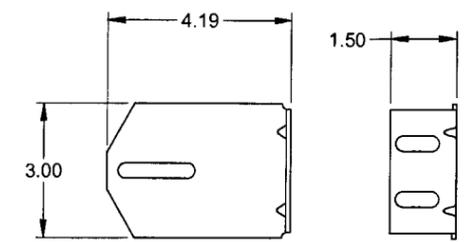
CENTER HINGE
.045 GALV. STEEL



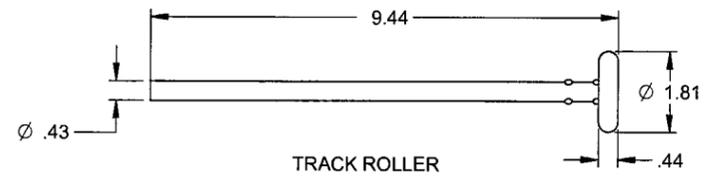
EDGE HINGE
.086 GALV. STEEL



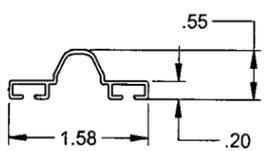
SLIDE LOCK
CASE .086 GALV. STEEL



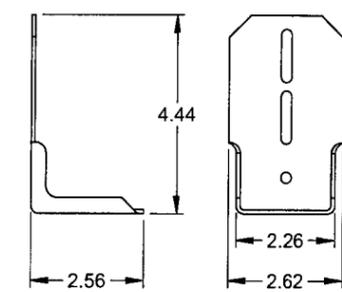
4" TRACK BRACKET
.116 GALV. STEEL



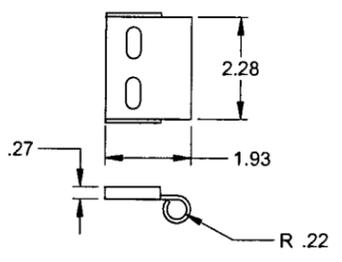
TRACK ROLLER



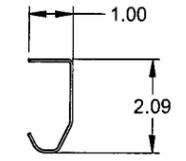
ASTRAGAL RETAINER
.039 ALUMINUM



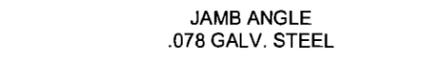
TOP FIXTURE
.086 GALV. STEEL



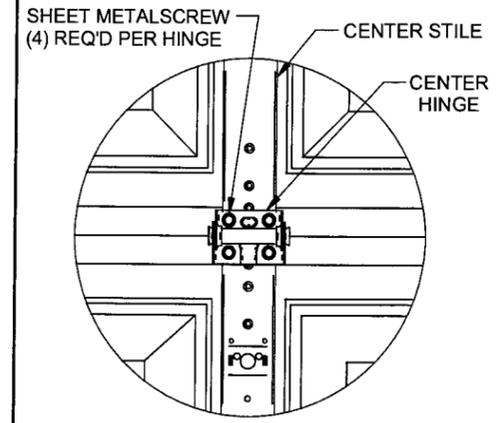
ROLLER CARRIER
.116 GALV. STEEL
ATTACHED TO TOP FIXTURE WITH
(2) TRACK BOLTS AND WHIZ NUTS



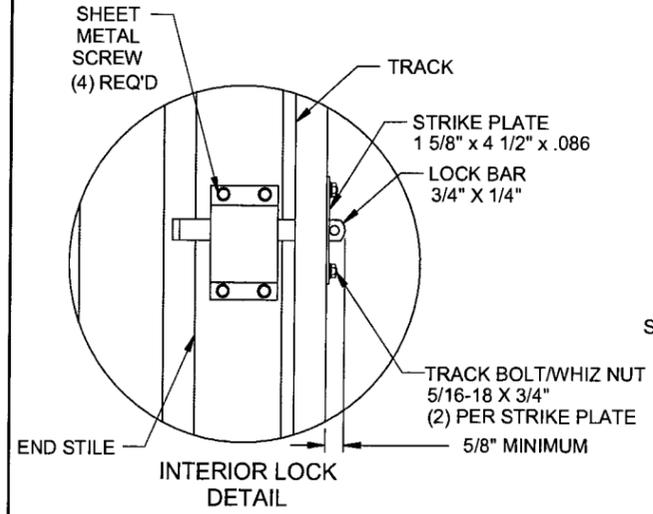
TRACK
.086 GALV. STEEL



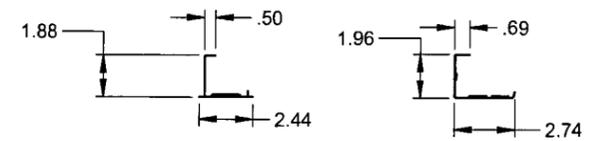
JAMB ANGLE
.078 GALV. STEEL



CENTER HINGE
DETAIL

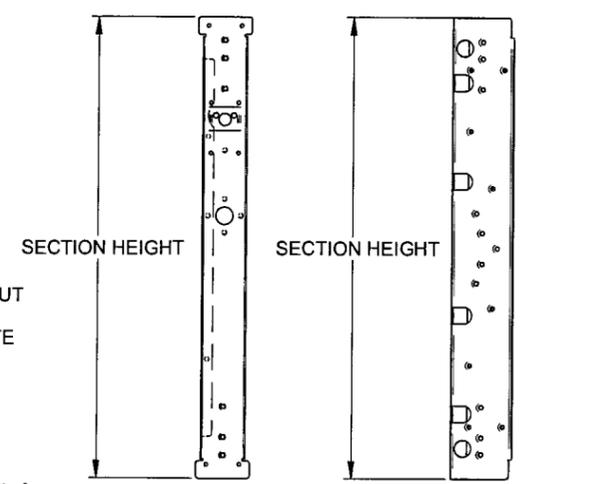


INTERIOR LOCK
DETAIL



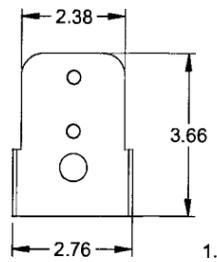
SECTION HEIGHT

SECTION HEIGHT

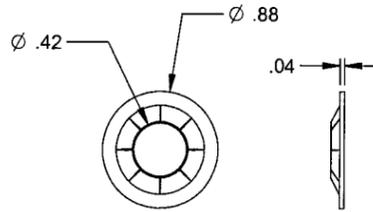


CENTER STILE
.034 GALV. STEEL

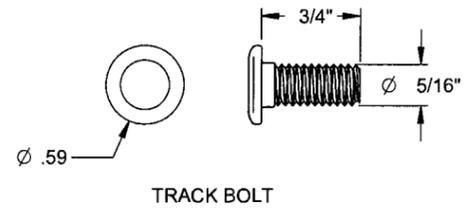
END STILE
.043 GALV. STEEL



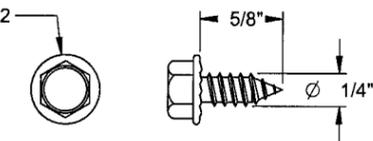
ROLLER CARRIER
.086 GALV. STEEL



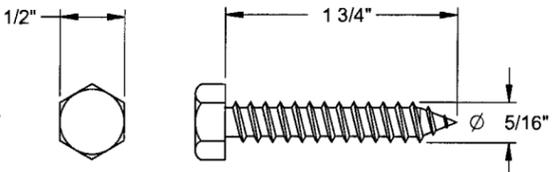
RETAINING NUT



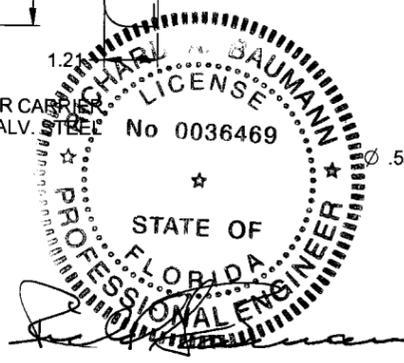
TRACK BOLT



SHEET METAL SCREW



HEX HEAD LAG SCREW



Approved as complying with the
Florida Building Code
Date 10/20/2010
NOA# TL-0470.02
Miami Dade Product Control
Division
By [Signature]

| | | | | |
|------|-------------|-----|------|------|
| REV. | DESCRIPTION | ECO | DATE | ECO: |
| | | | | |
| | | | | |
| | | | | |

| | | |
|-------------------------|---|---------------------------------|
| SCALE: NONE | 1101 EAST RIVER ROAD DIXON, IL 61021 | TITLE: SPEC, WINDLOAD TRADEMARK |
| DRAWN BY: G. WEDEKIND | | NO. P-3308 |
| CHECKED BY: G. WEDEKIND | | SHEET 3 OF 3 |
| DATE: 10/23/09 | | REV A |