



**MIAMI-DADE COUNTY**  
**BUILDING AND NEIGHBORHOOD COMPLIANCE DEPARTMENT (BNC)**  
**BOARD AND CODE ADMINISTRATION DIVISION**

**MIAMI-DADE COUNTY**  
**PRODUCT CONTROL SECTION**  
 11805 SW 26 Street, Room 208  
 Miami, Florida 33175-2474  
 T (786) 315-2590 F (786) 315-2599

**NOTICE OF ACCEPTANCE (NOA)**

[www.miamidade.gov/building](http://www.miamidade.gov/building)

**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 Section 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 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. BORA 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: Steelform Standard 24 and 20 Gauge Steel Sectional Garage Door up to 18'-2" wide**

**APPROVAL DOCUMENT:** Drawing No. P-3313, titled "Spec, Wind Load Steelform Standard 24 and 20 Gauge", sheets 1 through 4 of 4, dated 02/25/10, with last revision C dated 01/18/11, 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 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, 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 page E-1, as well as approval document mentioned above. The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



*[Handwritten Signature]*  
 02/16/11

NOA No. 10-0921.06  
 Expiration Date: March 10, 2016  
 Approval Date: March 10, 2011  
 Page 1

**Raynor Garage Doors**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No **P-3313**, titled "Spec, Wind Load Steelform Standard 24 and 20 Gauge", sheets 1 through 4 of 4, dated 02/25/10, with last revision C dated 01/18/11, 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 110", 146" and 218" Wide Steelform Sectional Garage Doors, prepared by Hurricane Test Laboratory, LLC, Test Report No. **G493-0301-10**, dated 08/10/10, 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. "**Submitted under NOA # 10-0921.05**"
3. Test report on Tensile Test per ASTM E8, of steel sheet, prepared by Certified Testing Laboratories, Test Report No. 0205T, dated 03/30/10, signed and sealed by Ramesh Patel, P.E.
4. Test report on Salt Spray per ASTM B117-90 of painted G40 galvanized painted steel, prepared by Wendler Engineering Services, Inc., dated 09/17/10, signed and sealed by Richard A. Baumann, P.E.

**C. CALCULATIONS**

1. Jamb attachment verification calculations, prepared by Wendler Engineering Services, Inc., dated 09/16/10, signed and sealed by Richard A. Baumann, P.E.

**D. QUALITY ASSURANCE**

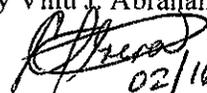
1. Miami-Dade Building and Neighborhood Compliance Department (BNC)

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

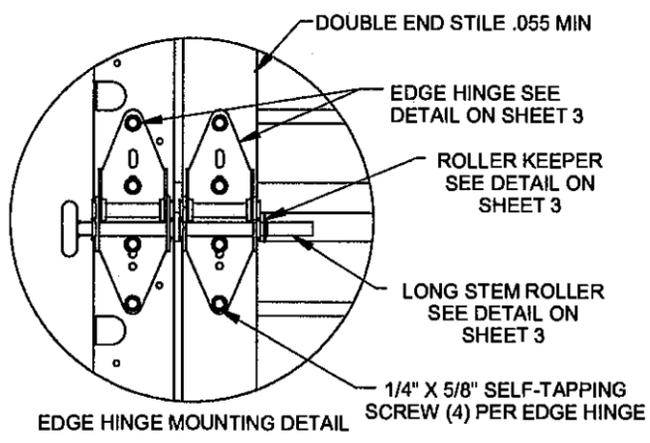
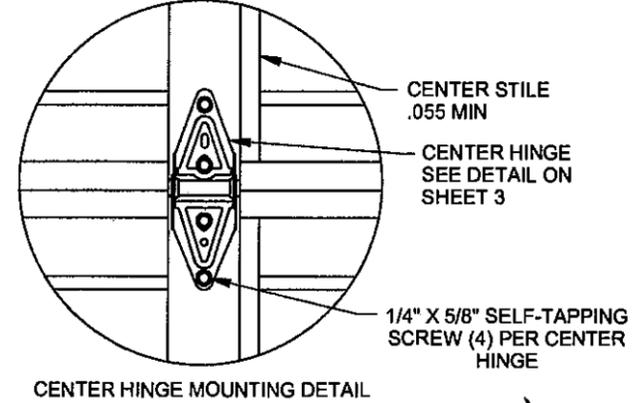
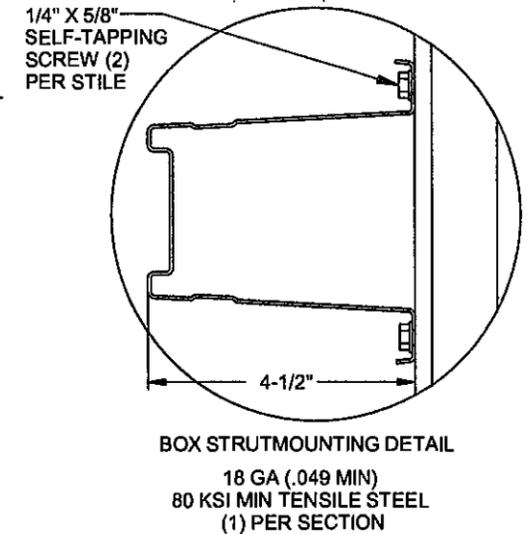
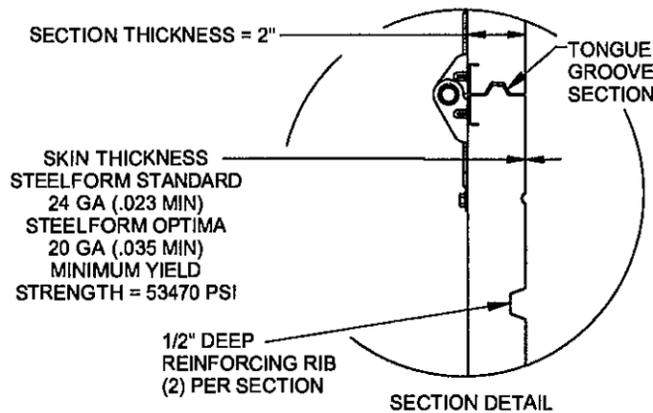
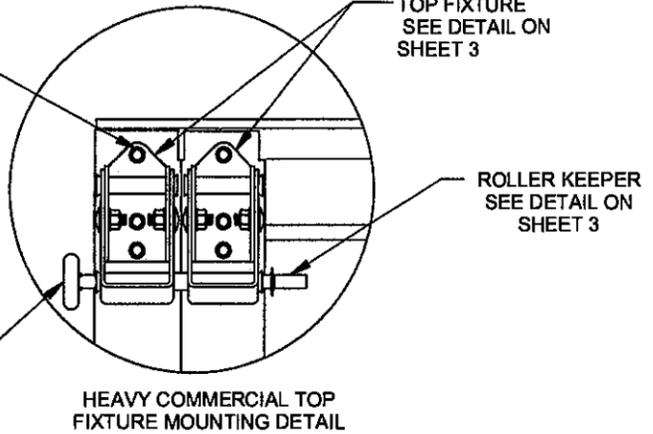
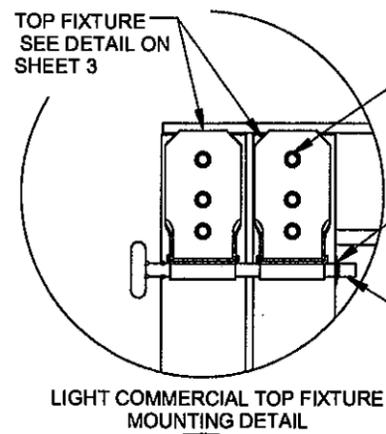
1. Statement letter of code conformance to FBC 2007, issued by Wendler Engineering Services, Inc., dated 09/17/10, signed and sealed by Richard A. Baumann, P.E.
2. Statement letter of no financial interest, issued by Wendler Engineering Services, Inc., dated 09/17/10, signed and sealed by Richard A. Baumann, P.E.
3. Laboratory compliance (FBC 2007) letter for Test Report No. **G493-0301-10**, issued by Hurricane Test Laboratory, LLC, dated 08/10/10, signed and sealed by Vinu J. Abraham, P.E.

  
02/16/11

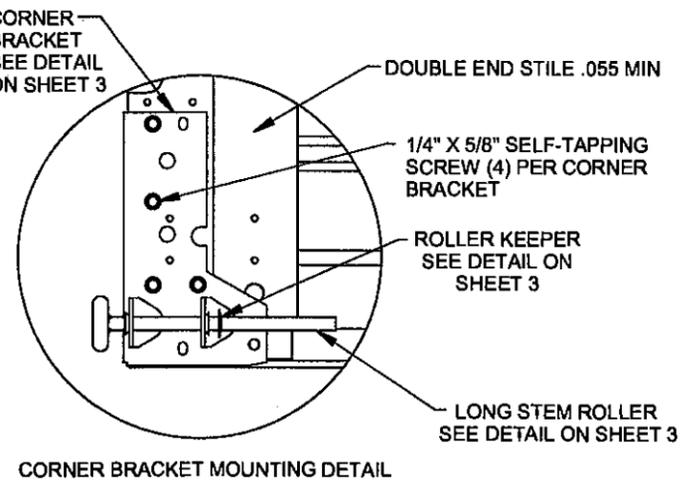
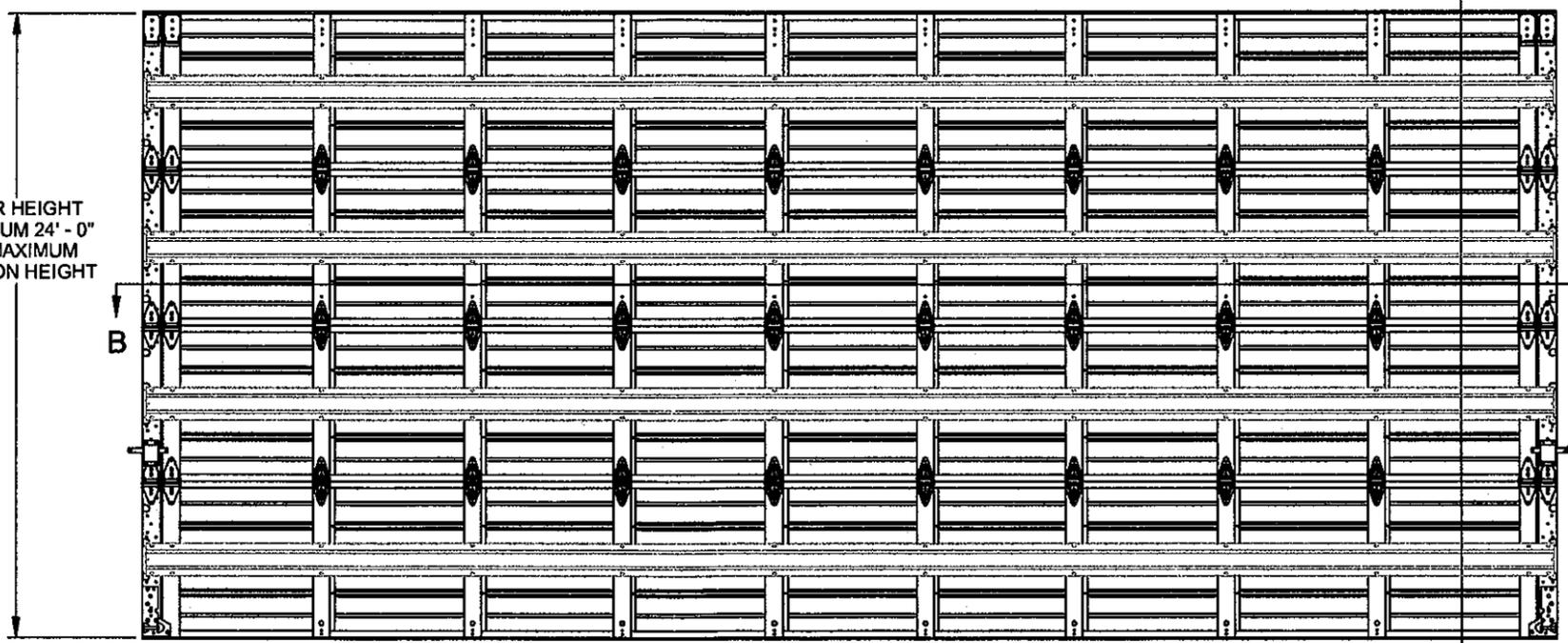
Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No. 10-0921.06

Expiration Date: March 10, 2016

Approval Date: March 10, 2011



DOOR HEIGHT  
 MAXIMUM 24' - 0"  
 24" MAXIMUM SECTION HEIGHT



TRACK AND COUNTER BALANCE ASSEMBLIES WERE OMITTED FROM ALL DETAILS ON THIS PAGE FOR CLARITY. SEE SHEET 2 FOR TRACK AND COUNTER BALANCE DETAILS

18' - 2" MAX DOOR WIDTH  
 SEE SHEET 2 FOR OTHER DOOR WIDTHS

RICHARD A. RAJAWAN  
 LICENSE No 0036489  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 1-22-11

Approved as complying with the Florida Building Code  
 Date 03/10/2011  
 NOA# 10-0921.06  
 Miami Dade Product Control  
 By *[Signature]*

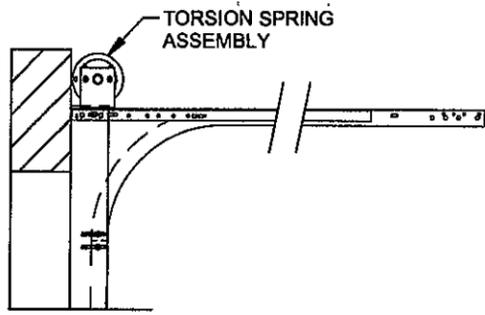
DOORS TESTED PER TAS 202 FOR STATIC AIR PRESSURE PER TAS 201, TAS 203 FOR LARGE MISSILE IMPACT AND CYCLIC WIND PRESSURE

DOOR WIDTH	DESIGN LOAD	
9' - 2"	+ 80.0	- 85.8
10' - 2"	+ 60.0	- 74.5
11' - 2"	+ 60.0	- 74.5
12' - 2"	+ 60.0	- 74.5
13' - 2"	+ 40.0	- 52.0
14' - 2"	+ 40.0	- 52.0
15' - 2"	+ 40.0	- 52.0
16' - 2"	+ 40.0	- 52.0
17' - 2"	+ 40.0	- 52.0
18' - 2"	+ 40.0	- 52.0

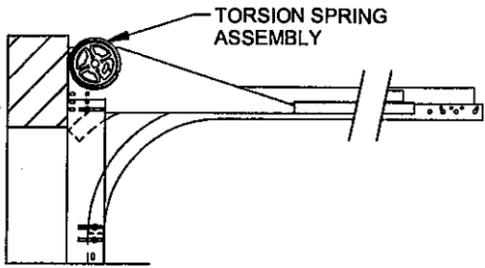
REV.	DESCRIPTION	ECH. NO.	DATE	ECH. NO.	DATE
C	UPDATED PER DADE COUNTY REQUEST	5807.02	01/18/11		
B	RELEASED TO PRODUCTION	5807.01	08/18/10		
A	PRELIMINARY RELEASE		02/25/10		

RAYNOR  
 GARAGE DOORS  
 8044 EAST RIVER ROAD  
 DOTHAN, AL 36024

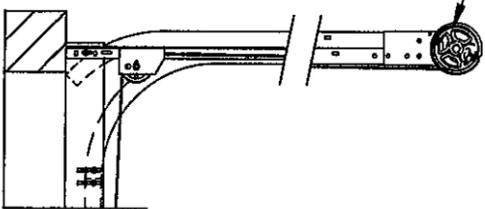
TITLE: SPEC, WIND LOAD STEELFORM STANDARD 24 GAUGE AND 20 GAUGE  
 NO. P-3313 SHEET 1 OF 4 REV C



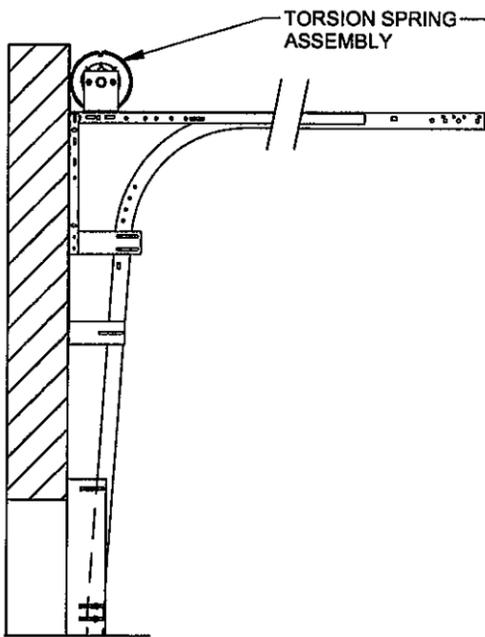
NORMAL HEADROOM TRACK  
2" TRACK ANGLE MOUNT SHOWN  
3" TRACK ANGLE MOUNT AVAILABLE



FRONT MOUNT LOW HEADROOM TRACK  
2" TRACK ANGLE MOUNT SHOWN  
3" TRACK ANGLE MOUNT AVAILABLE

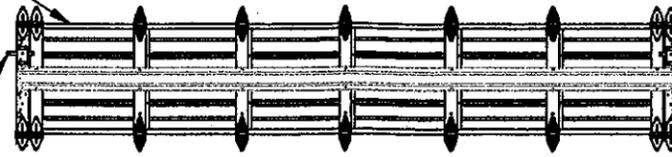


REAR MOUNT LOW HEADROOM TRACK  
2" TRACK ANGLE MOUNT SHOWN  
3" TRACK ANGLE MOUNT AVAILABLE

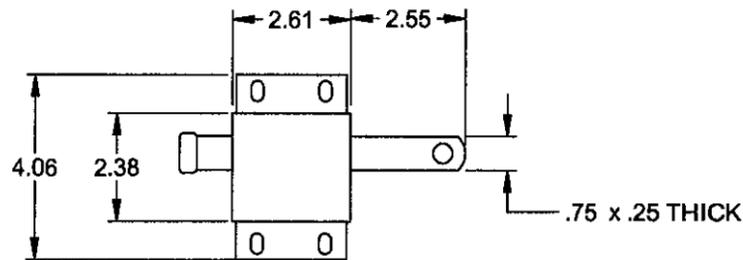


LIFT CLEARANCE TRACK  
2" TRACK ANGLE MOUNT SHOWN  
3" TRACK ANGLE MOUNT AVAILABLE

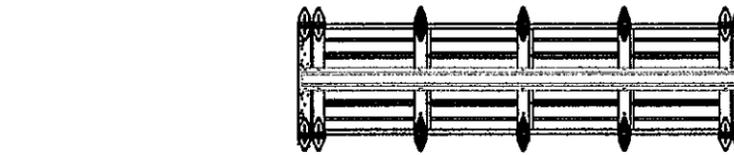
LOCK SECTION #2 SECTION  
INTERIOR SLIDE LOCK (2 REQUIRED) LOCATE ON #2 SECTION AND ATTACHED WITH (4) 1/4" X 5/8" SELF TAPPING SCREWS.



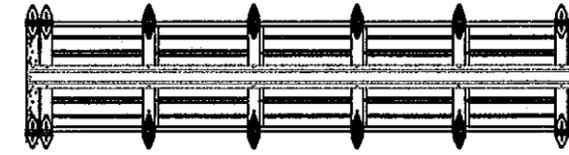
INTERIOR LOCK SECTION DETAIL  
12'-2" WIDE SECTION SHOWN  
REQUIRED ON ALL DOOR WIDTHS



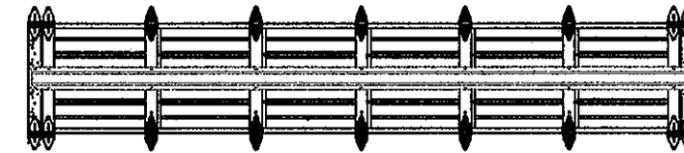
SLIDE LOCK CASE .086 GALV. STEEL



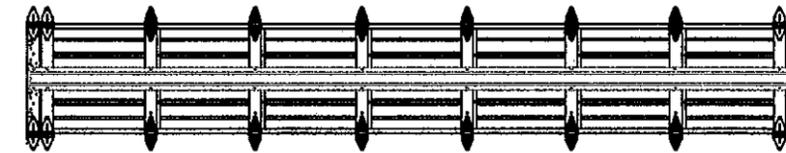
6' - 3" TO 9' - 2"



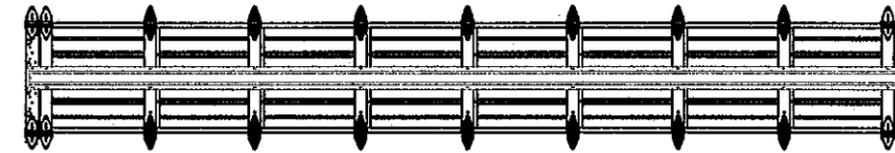
9' - 3" TO 10' - 2"



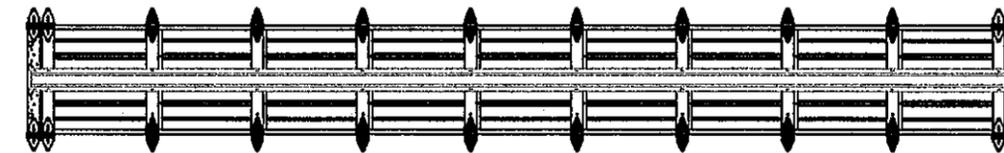
10' - 3" TO 12' - 2"



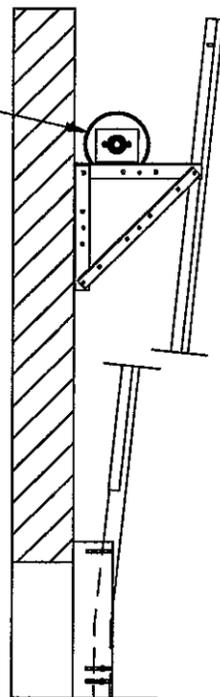
12' - 3" TO 14' - 2"



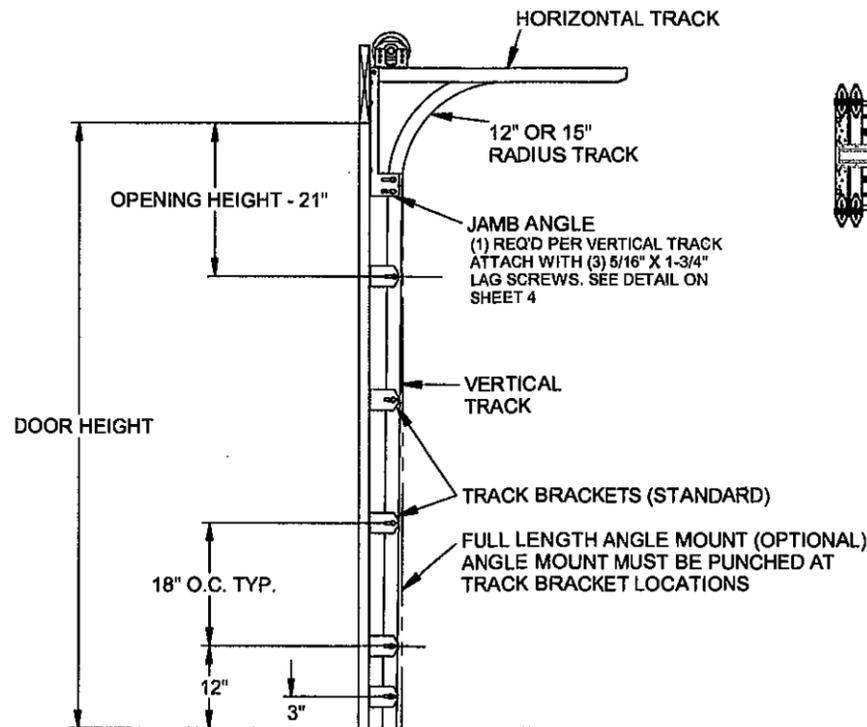
14' - 3" TO 16' - 2"



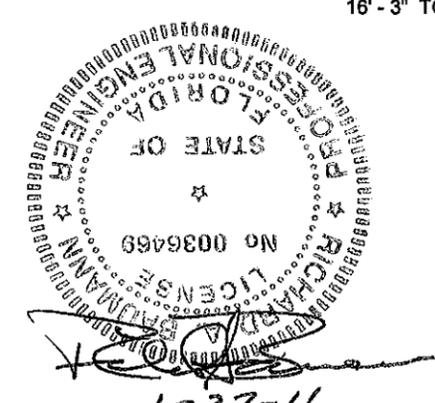
16' - 3" TO 18' - 2"



VERTICAL LIFT TRACK  
2" TRACK ANGLE MOUNT SHOWN  
3" TRACK ANGLE MOUNT AVAILABLE

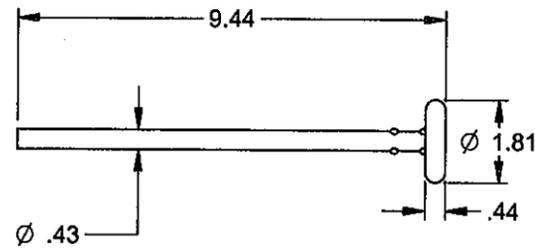


TYPICAL TRACK INSTALLATION

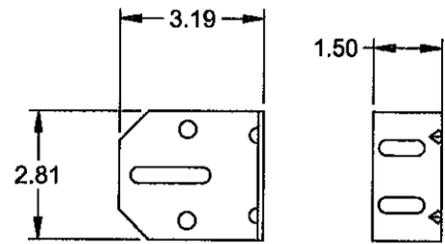


Approved as complying with the Florida Building Code  
Date: 03/10/2011  
NOA# 10-0121.06  
Miami Dade Product Control  
By: *[Signature]*

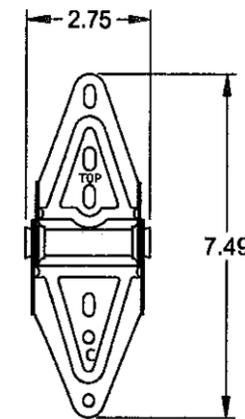
REV.	DESCRIPTION	ECN. NO.	DATE	ECN. NO.	SCALE: NOTED OR NONE	DRAWN BY: G.WEDEKIND	CHECKED BY: GW	DATE: 02/25/10	RAYNOR GARAGE DOORS 801 488 EAST RIVER ROAD DOOR, A.L. 11921	TITLE: SPEC, WIND LOAD STEELFORM STANDARD 24 GAUGE AND 20 GAUGE	NO. P-3313	SHEET 2 of 4	REV C
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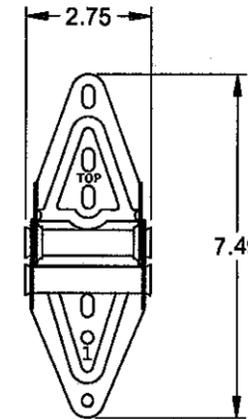
SCALE 1:2  
TRACK ROLLER



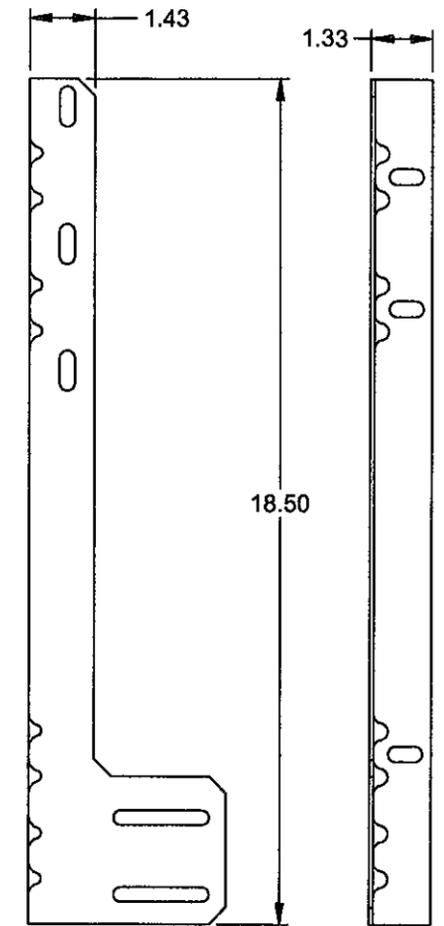
SCALE 1:2  
3" TRACK BRACKET  
.116 GALV. STEEL



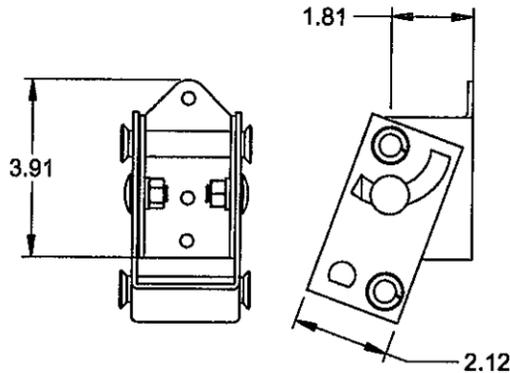
SCALE 1:2  
CENTER HINGE  
.045 GALV. STEEL



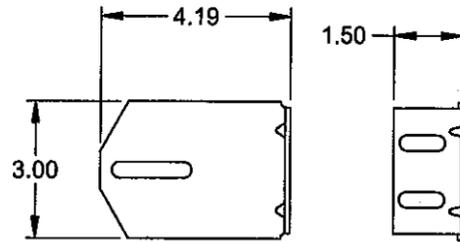
SCALE 1:2  
EDGE HINGE  
.086 GALV. STEEL



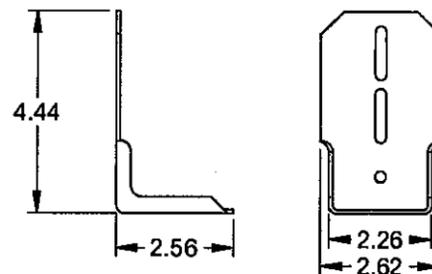
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JAMB ANGLE  
.078 GALV. STEEL



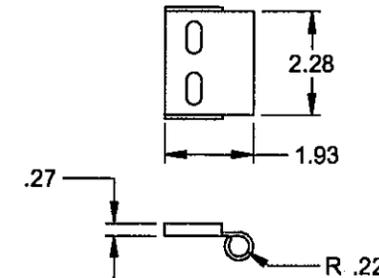
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HEAVY COMMERCIAL TOP FIXTURE  
.116 GALV. STEEL



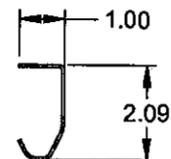
SCALE 1:2  
4" TRACK BRACKET  
.118 GALV. STEEL



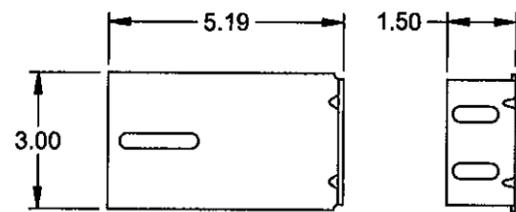
SCALE 1:2  
LIGHT COMMERCIAL TOP FIXTURE  
.086 GALV. STEEL



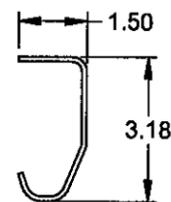
SCALE 1:2  
ROLLER CARRIER  
.116 GALV. STEEL  
ATTACHED TO LIGHT COMMERCIAL TOP FIXTURE  
WITH (2) TRACK BOLTS AND WHIZ NUTS



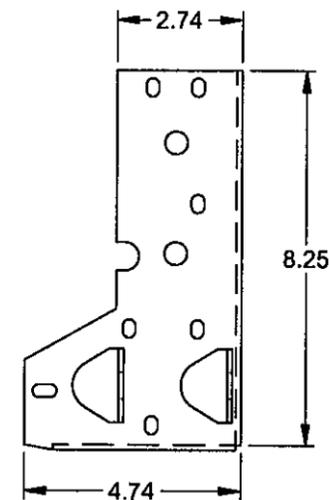
SCALE 1:2  
2" TRACK  
.086 GALV. STEEL



SCALE 1:2  
5" TRACK BRACKET  
.116 GALV. STEEL



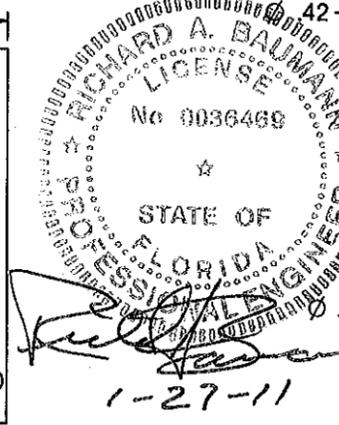
SCALE 1:2  
3" TRACK (OPTIONAL)  
.105 GALV. STEEL



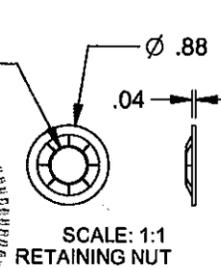
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CORNER BRACKET  
.116 GALV. STEEL



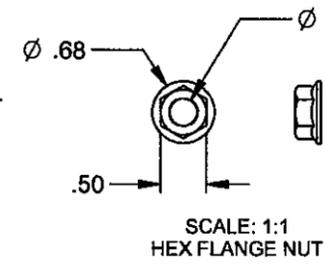
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SHEET METAL SCREW



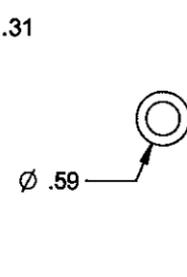
Approved as complying with the  
Florida Building Code  
Date 03/10/2011  
NOA# 10-0921.06  
Miami Dade Product Control  
By *[Signature]*



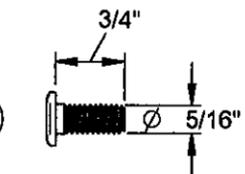
SCALE 1:1  
RETAINING NUT



SCALE 1:1  
HEX FLANGE NUT



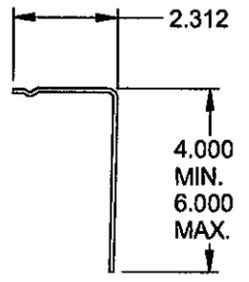
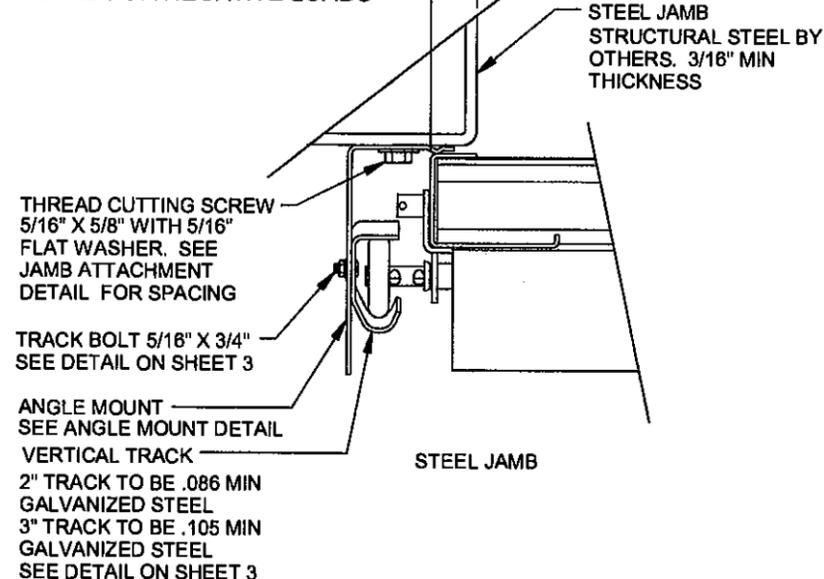
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TRACK BOLT



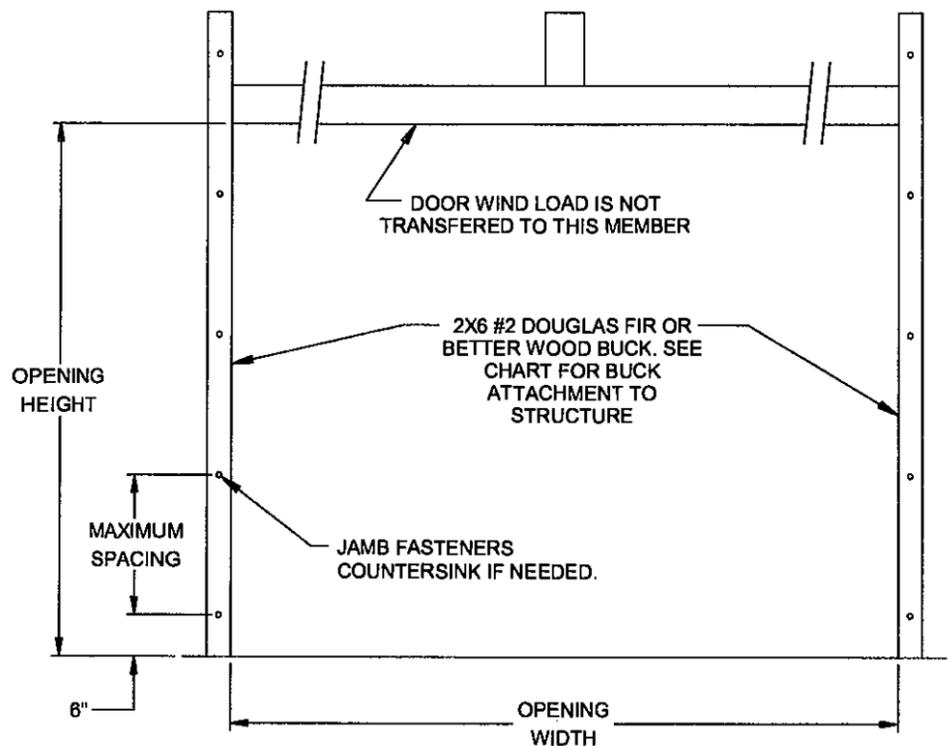
SCALE 1:1  
HEX HEAD LAG SCREW

REV.	DESCRIPTION	EQ. NO.	DATE	SCALE: NOTED OR NONE	<b>RAYNOR</b> GARAGE DOORS BOX 448 EAST RIVER ROAD DODD, AL. 34121	TITLE: SPEC, WIND LOAD STEELFORM STANDARD 24 GAUGE AND 20 GAUGE NO. P-3313	SHEET 3 OF 4	REV C
				DRAWN BY: G.WEDELKIND				
				CHECKED BY: GW				
				DATE: 02/25/10				

1" LAP JAMB FOR NEGATIVE LOADS

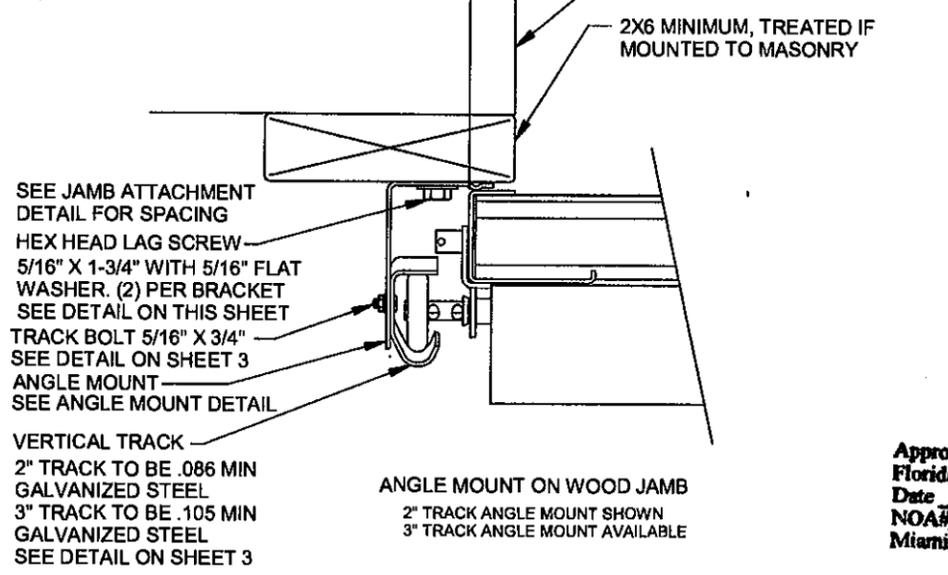


ANGLE MOUNT  
.086 MIN. - .116 MAX  
GALVANIZED STEEL  
SCALE 1:2



JAMB ATTACHMENT

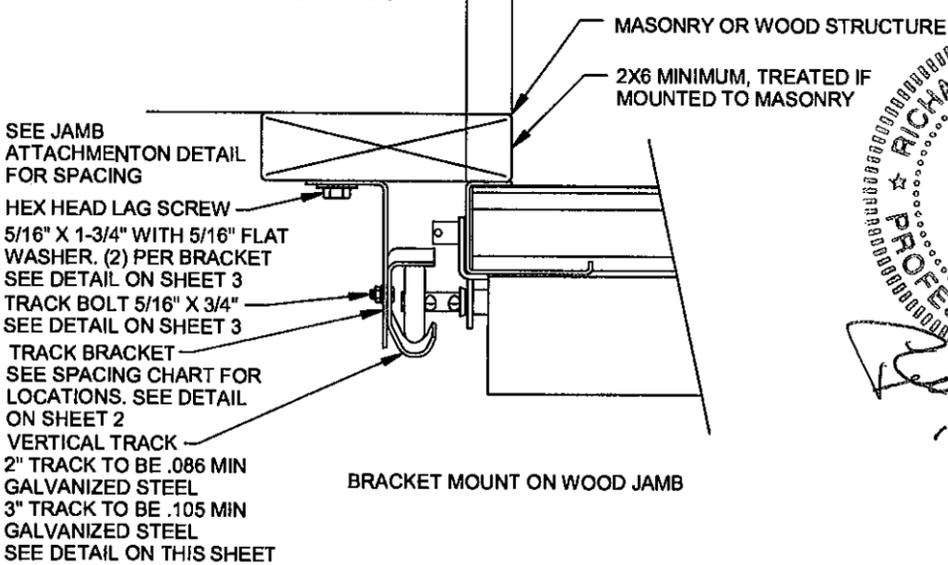
1" LAP JAMB FOR NEGATIVE LOADS



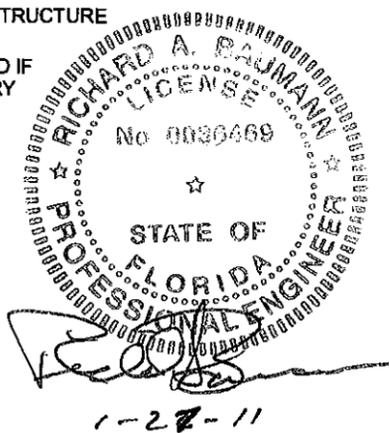
ANGLE MOUNT ON WOOD JAMB  
2" TRACK ANGLE MOUNT SHOWN  
3" TRACK ANGLE MOUNT AVAILABLE

Approved as complying with the  
Florida Building Code  
Date 03/10/2011  
NOA# 10-0921-06  
Miami Dade Product Control  
By *[Signature]*

1" LAP JAMB FOR NEGATIVE LOADS



BRACKET MOUNT ON WOOD JAMB



1/4" ITW BULDEX TAPCON				
JAMB TYPE	EMBEDMENT	EDGE DISTANCE	ALLOWABLE TENSION LOAD	MAXIMUM ON CENTER SPACING
2000 PSI CONCRETE	1-3/4"	2-1/2"	505	16-1/2"
3000 PSI CONCRETE	1-3/4"	2-1/2"	550	18"
5/16" ITW BULDEX TAPCON				
3000 PSI CONCRETE	1-3/4"	2 3/16"	563	18-1/2"
POWER ANCHOR - 3/8" WEDGE ANCHOR				
2000 PSI CONCRETE	1-5/8"	1-7/8"	360	11-3/4"
	3"	1-7/8"	768	25-1/4"
5/16" LAG SCREW				
SPRUCE, PINE, FIR (G = .42)	1-1/2"	1-3/4"	307	10"
DOUGLAS FIR (G = .46)	1-1/2"	1-3/4"	352	11-1/2"
SOUTHERN YELLOW PINE (G = .55)	1-1/2"	1-3/4"	460	15"
3/8" LAG SCREW				
SPRUCE, PINE, FIR (G = .42)	1-1/2"	1-3/4"	352	11-1/2"
DOUGLAS FIR (G = .46)	1-1/2"	1-3/4"	403	13-1/4"
SOUTHERN YELLOW PINE (G = .55)	1-1/2"	1-3/4"	528	17-1/4"
5/16 X 5/8 THREAD CUTTING SCREW				
STEEL A 36	3/16"	1/2"	1048	34-1/2"

JAMB ATTACHMENT NOTES

- 1/4" DIAMETER ANCHORS REQUIRE 5/8" MIN. O.D. STEEL WASHER.
- 5/16" AND 3/8" DIAMETER FASTENERS REQUIRE 7/8" MIN O.D. STEEL WASHER.
- MAXIMUM POSITIVE LOAD PER JAMB = (18'-2" X 40.0 PSF) / 2 = 363 LBS PER FOOT
- MAXIMUM NEGATIVE LOAD PER JAMB = (18'-2" X 52.0 PSF) / 2 = 472 LBS PER FOOT.
- 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.