



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.maimidade.gov/buildingcode

Raynor Garage Doors
1101 E. 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: Decade II 18' wide Steel Sectional Garage Door

APPROVAL DOCUMENT: Drawing No. P-3303, titled "Spec. Wind Load Decade II 18'-0" wide max. door width", sheets 1 through 3 of 3, dated 01/04/08, with last revision C dated 11/18/08, 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]
 12/1/08

NOA No. 08-0709.09
Expiration Date: December 24, 2013
Approval Date: December 24, 2008
 Page 1

Raynor Garage Doors

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **P-3303**, titled "Spec. Wind Load SteelForm Standard 24 Gauge and 20 Gauge", sheets 1 through 3 of 3, dated 01/04/08, with last revision C dated 11/18/08, 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 an 18'x 8' Decade II Sectional Steel Garage Door, prepared by Hurricane Test Laboratory, LLC, Test Report No. **G493-0104-08**, dated 03/12/08, signed and sealed by Vinu J. Abraham, P.E.
2. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
Along with marked-up drawings and installation diagram of an 18'x 7.5' Decade II Sectional Steel Garage Door, prepared by Hurricane Test Laboratory, LLC, Test Report No. **G493-0205-08**, dated 03/12/08, 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. **0156Q**, dated 04/01/08, 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 09/25/08, signed and sealed by Richard A. Baumann, P.E.

C. CALCULATIONS

1. Jamb attachment verification calculations, prepared by Wendler Engineering Services, Inc., dated 05/16/08, signed and sealed by Richard A. Baumann, P.E.

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO).



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 08-0709.09
Expiration Date: December 24, 2013
Approval Date: December 24, 2008

Raynor Garage Doors

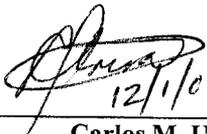
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

1. None.

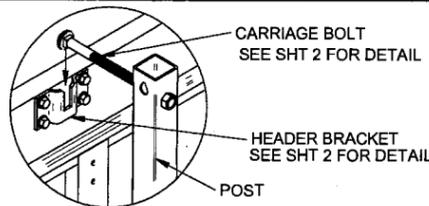
F. STATEMENTS

1. Statement letter of code conformance issued by Wendler Engineering Services, Inc., dated 05/19/08, signed and sealed by Richard A. Baumann, P.E.
2. Statement letter of no financial interest issued by Wendler Engineering Services, Inc., dated 05/19/08, signed and sealed by Richard A. Baumann, P.E.



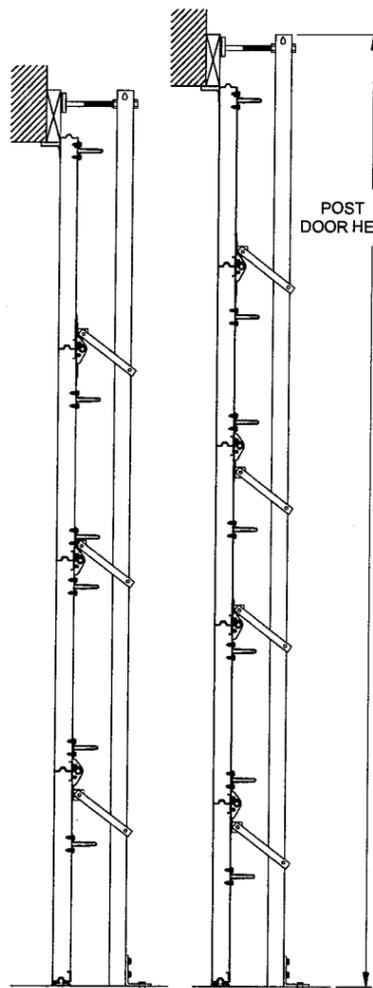
12/1/08

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 08-0709.09
Expiration Date: December 24, 2013
Approval Date: December 24, 2008

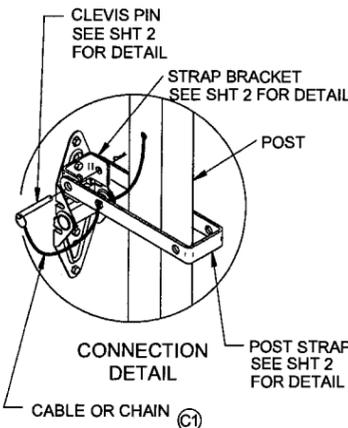


POST ENGAGEMENT
HEADER CONNECTION DETAIL

Approved as complying with the
Florida Building Code
Date 12/24/2008
NOAH 08-0709.09
Miami Dade Product Control
Division
By *[Signature]*

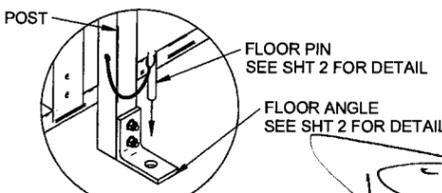


POST LENGTH =
DOOR HEIGHT + 5 1/4"

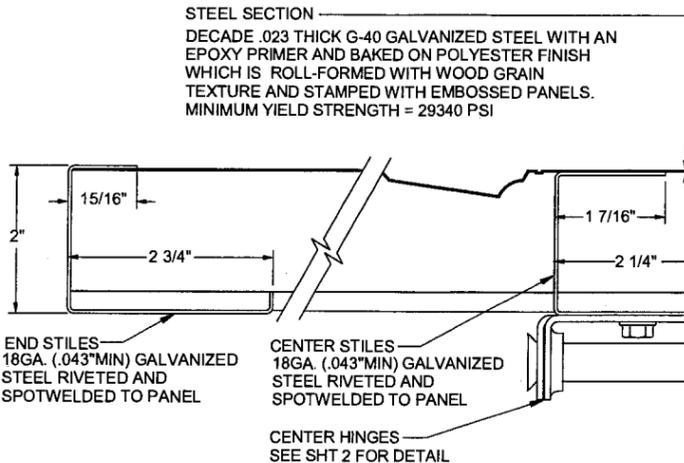


CONNECTION
DETAIL

POST STRAPS AND CLEVIS PINS
TO BE CHAINED OR CABLED TO
THE POST AND THE POST IS
CABLED OR CHAINED TO THE
STRUCTURE FOR STORAGE
PURPOSES ONLY



POST ENGAGEMENT
FLOOR CONNECTION DETAIL



STEEL SECTION
DECADE .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 PANELS.
MINIMUM YIELD STRENGTH = 29340 PSI

END STILES—
18GA. (.043"MIN) GALVANIZED
STEEL RIVETED AND
SPOTWELDED TO PANEL

CENTER STILES—
18GA. (.043"MIN) GALVANIZED
STEEL RIVETED AND
SPOTWELDED TO PANEL

CENTER HINGES—
SEE SHT 2 FOR DETAIL

DOOR HEIGHT	SECTION SCHEDULE				
	TOP SECTION	INTERMEDIATE SECTION	INTERMEDIATE SECTION	INTERMEDIATE SECTION	BOTTOM SECTION
6' - 6"	19 1/2"	19 1/2"	19 1/2"	-----	19 1/2"
6' - 8"	19 1/16"	19 1/16"	19 1/16"	-----	22 1/2"
6' - 9"	22 1/2"	19 1/2"	19 1/2"	-----	19 1/2"
7' - 0"	22 1/2"	19 1/2"	19 1/2"	-----	22 1/2"
7' - 6"	22 1/2"	22 1/2"	22 1/2"	-----	22 1/2"
8' - 0"	19 1/16"	19 1/16"	19 1/16"	19 1/16"	19 1/16"

SPRING COUNTERBALANCE
SPRING WIRE INDIVIDUALLY
CALCULATED TO
COUNTERBALANCE DOOR
QUANTITY AND SIZE OF
SPRINGS WILL VARY

TOP FIXTURE
FASTENED WITH (3)
1/4" X 5/8" SHEET METAL
SCREWS. SEE SHT 2 FOR
DETAILS

STEEL U-BAR
REINFORCEMENT
FASTENED TO ALL CENTER
AND END STILES USING (2)
1/4" X 5/8" SHEET METAL
SCREWS AT EACH LOCATION.
SEE SHT 2 FOR DETAILS

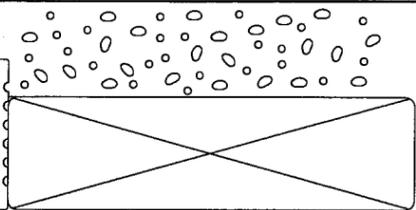
CORNER BRACKET
FASTENED WITH (4) 1/4" X 5/8"
SHEET METAL SCREWS.
SEE SHT 2 FOR DETAIL

VENTS (OPTIONAL)
OPENINGS MAY BE LOCATED IN
DOOR AS REQUIRED BY CODE

DOORS TESTED PER TAS 202 FOR
STATIC AIR PRESSURE

TESTED PER TAS 201, TAS 203
FOR
LARGE MISSILE IMPACT AND
CYCLIC WIND PRESSURE
DESIGN PRESSURE +45.3 / -51.2

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



JAMBS
2X6 WOOD JAMB
SEE SHT 3 FOR ATTACHMENT

HEX HEAD LAG SCREW
(2) PER BRACKET
SEE SHT 2 FOR DETAIL

TRACK BRACKET
SEE CHART ON SHT 3 FOR
USAGE SEE SHT 2 FOR
DETAIL

WHIZ LOCK NUT
5/16-18, (1) PER TRACK
BRACKET

TRACK BOLT
(1) PER TRACK BRACKET
SEE SHT 2 FOR DETAIL

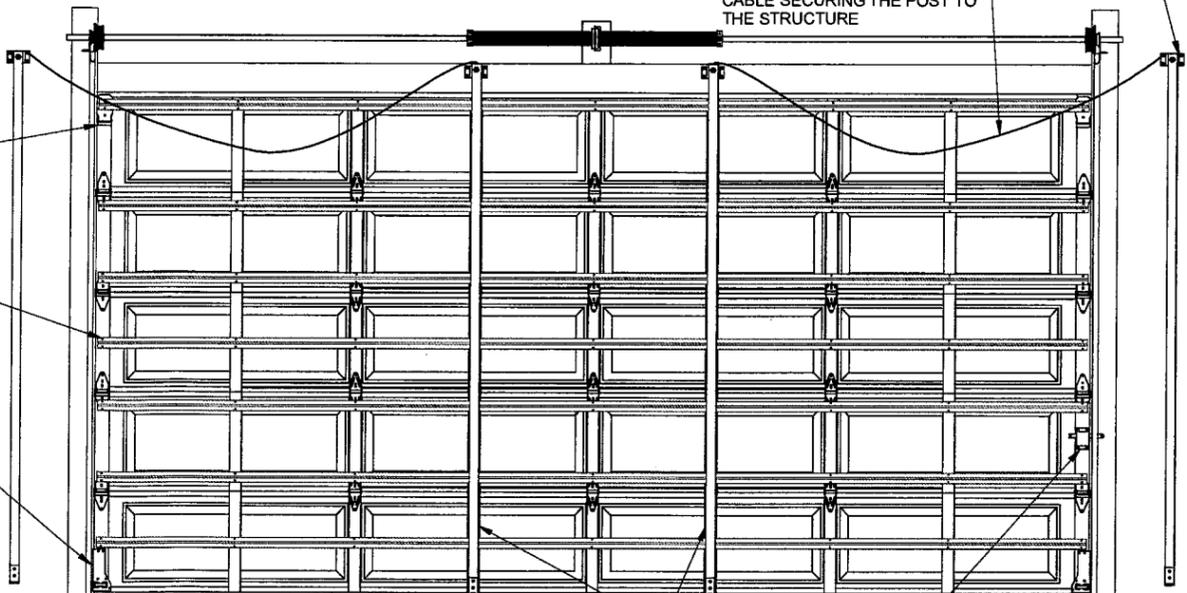
TRACK ROLLER
SEE SHT 2 FOR DETAIL

TRACK, 2"
SEE SHT 2 FOR DETAIL

RETAINING NUT
(1) REQUIRED PER ROLLER
SEE SHT 2 FOR DETAIL

SINGLE EDGE HINGE
SEE SHT 2 FOR DETAIL

POST RETENTION CABLE
(1) PER POST, 3/32" GALVANIZED
CABLE SECURING THE POST TO
THE STRUCTURE



INTERIOR ELEVATION

REMOVABLE POST
1-3/4" X 1-3/4" X 12GA. (.105"MIN) SQUARE
GALVANIZED TUBE (2) PER DOOR. SHOWN
IN THE INSTALLED POSITION.

LOCK
INTERIOR SIDE LOCKS
(1) PER SIDE

18' - 0" MAXIMUM WIDTH

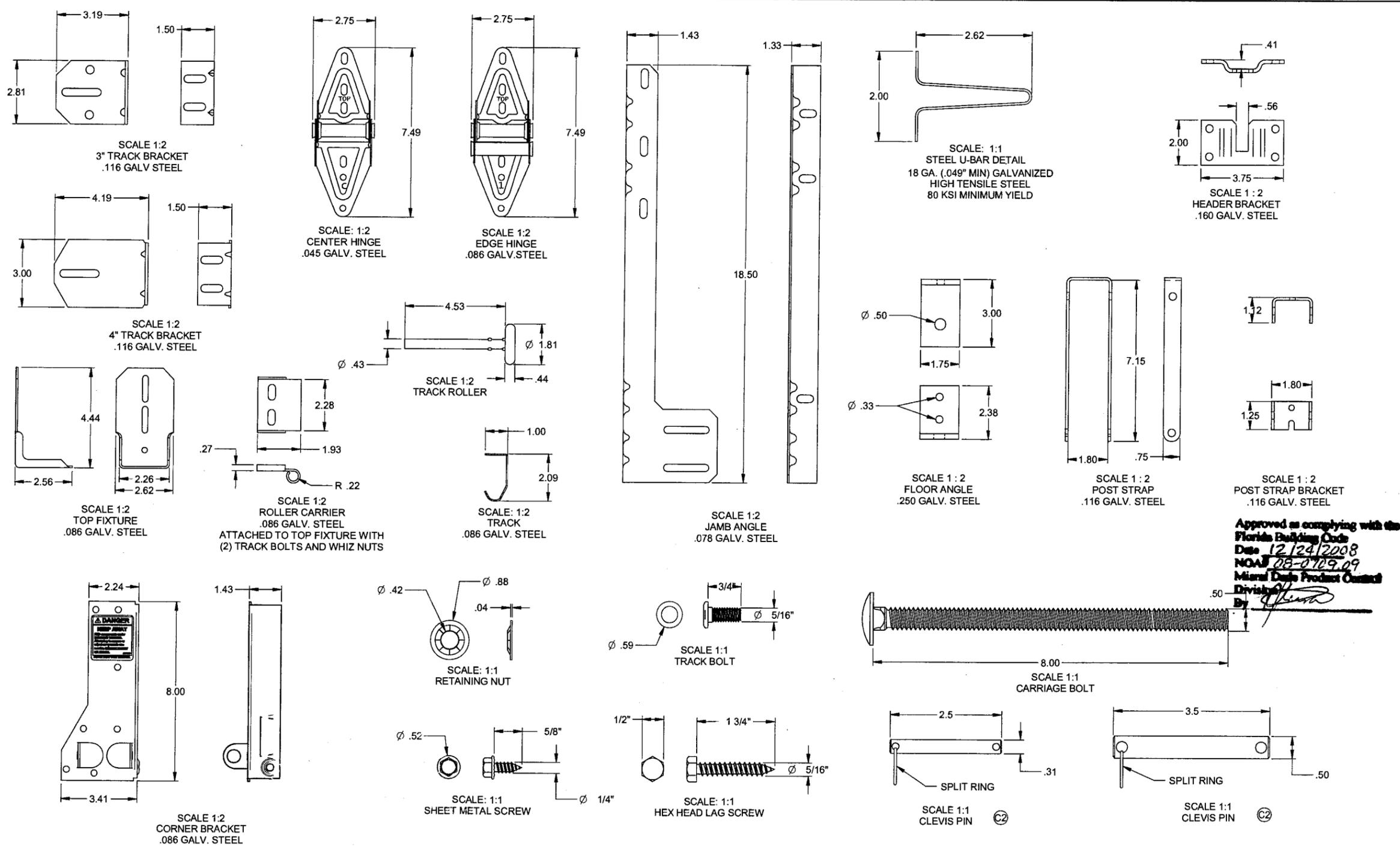
REV.	DESCRIPTION	ECO	DATE	ECO
C	1) ADDED CABLE / CHAIN NOTE, 2) CHANGED TO HEADLESS CLEVIS PIN AND ADDED SPLIT RING	5567.001	11/18/08	
B	TESTED TO DADE CO PROTOCOLS, ADDED SHT 2 & 3	5319.001	08/29/08	
A	PRODUCTION RELEASE	5242.001	02/26/07	

SCALE: NONE
DRAWN BY: G. WEDEKIND
CHECKED BY: G. WEDEKIND
DATE: 01/04/08



TITLE:
SPEC, WINDLOAD DECADE II
18'-0" WIDE MAX. DOOR WIDTH
No. P-3303

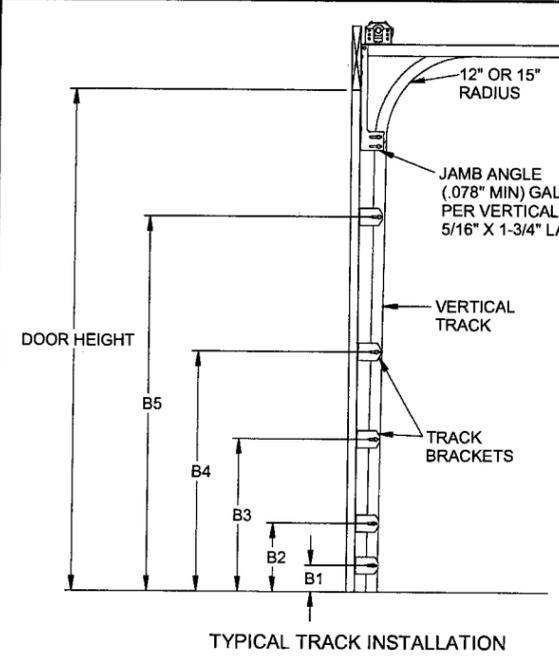
SHEET
1 OF 3
REV
C



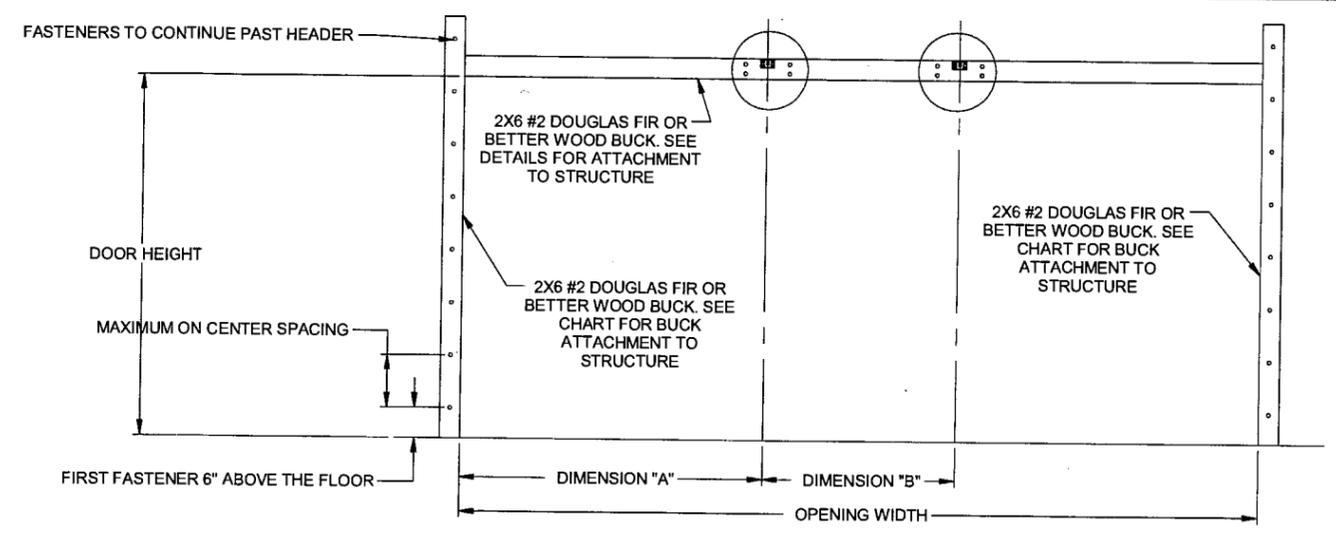
Approved as complying with the
Florida Building Code
Date 12/24/2008
NOA# 08-0729.09
Miami Dade Product Control
Division
By *[Signature]*

[Signature]
11-19-08

SCALE: NONE	<p>1101 EAST RIVER ROAD DIXON, L. 61021</p>	TITLE: SPEC, WINDLOAD DECADE II 18'-0" WIDE MAX. DOOR WIDTH	
DRAWN BY: G. WEDEKIND		NO. P-3303	SHEET
CHECKED BY: G. WEDEKIND			2 OF 3
DATE: 01/04/08		C	
ECO:	ECO:	ECO:	ECO:



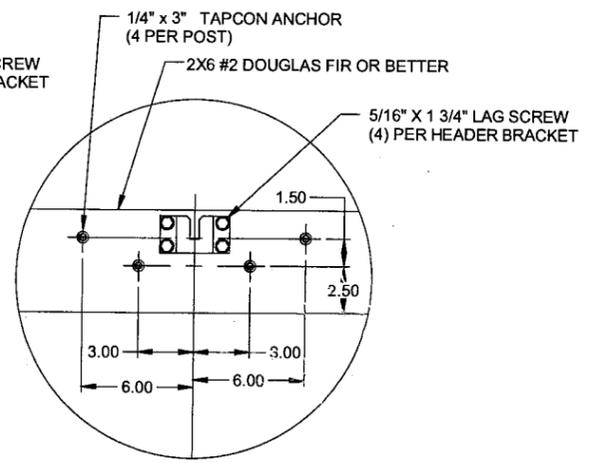
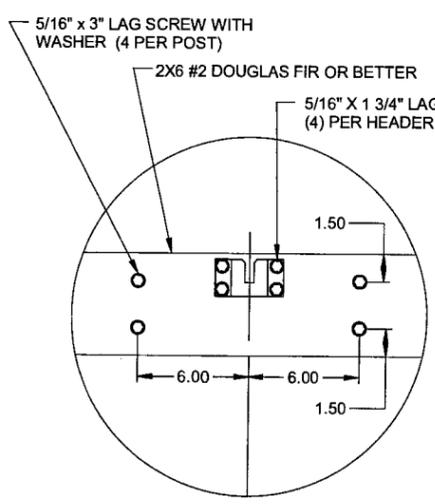
TRACK BRACKET SPACING					
DOOR HEIGHT	B1	B2	B3	B4	B5
6' - 6"	3"	12"	30"	48"	-----
6' - 8"	3"	12"	30"	48"	-----
6' - 9"	3"	12"	30"	48"	-----
7' - 0"	3"	12"	30"	48"	63"
7' - 6"	3"	12"	30"	48"	69"
8' - 0"	3"	12"	30"	48"	75"



Approved as complying with the Florida Building Code
Date 12/24/2008
NOA 08-2109.09
Miami Dade Product Control
Division
By *[Signature]*

- 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.
 - FASTENER SPACING BASED ON 18" WIDE DOOR.
 - DESIGN OF THE SUPPORTING STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE BUILDING DESIGNER AND SHALL BE DESIGNED FOR THE LOADS LISTED ON THIS DRAWING.

DOOR WIDTH FT	DOOR HEIGHT FT	LOAD PER JAMB		LOAD AT POST HEADER		LOAD AT POST		DIMENSI ON "A" INCHES	DIMENSI ON "B" INCHES	DESIGN PRESSURE POS	DESIGN PRESSURE NEG	TOTAL DOOR LOAD	
		POS	NEG	POS	NEG	POS	NEG					POS	NEG
10	7	450	509	568	642	568	642	34.06	51.88	45.3	51.2	3171	3584
	7.5	482	545	608	688	608	688					3398	3840
	8	514	581	649	733	649	733					3624	4096
12	7	648	733	627	709	627	709	49.06	45.88	45.3	51.2	3805	4301
	7.5	695	785	672	760	672	760					4077	4608
	8	741	837	717	810	717	810					4349	4915
14	7	767	867	726	821	726	821	58.06	51.88	45.3	51.2	4439	5018
	7.5	822	929	778	880	778	880					4757	5376
	8	877	991	830	938	830	938					5074	5734
15	7	807	912	786	888	786	888	61.06	57.88	45.3	51.2	4757	5376
	7.5	864	977	842	952	842	952					5096	5760
	8	922	1042	898	1015	898	1015					5436	6144
16	7	965	912	786	888	786	888	73.06	45.88	45.3	51.2	5074	5734
	7.5	1034	1169	842	952	842	952					5436	6144
	8	1103	1247	898	1015	898	1015					5798	6554
17	7	1045	1181	825	933	825	933	79.06	45.88	45.3	51.2	5391	6093
	7.5	1119	1265	884	1000	884	1000					5776	6528
	8	1194	1349	943	1066	943	1066					6161	6963
18	7	1084	1225	885	1000	885	1000	82.06	51.88	45.3	51.2	5708	6451
	7.5	1162	1313	948	1072	948	1072					6116	6912
	8	1239	1400	1011	1143	1011	1143					6523	7373



JAMB MATERIAL	FASTENER TYPE	MINIMUM EMBEDMENT	MINIMUM EDGE	ALLOWABLE TENSION	MAXIMUM ON CENTER
GROUT FILLED BLOCK	5/16" DIA X 3 1/4" LONG ITW TAPCON	1 3/4"	4"	487	37 3/4"
3192 PSI CONCRETE	1/4" DIA X 3 1/4" LONG ITW TAPCON	1 3/4"	1"	510	39 3/4"
2899 PSI CONCRETE	5/16" DIA X 3 3/4" LONG ITW TAPCON	2 1/4"	1 9/16"	713	55 1/2"
2000 PSI CONCRETE	3/8" DIA X 3 1/2" POWER STUD ANCHOR	1 5/8"	1 7/8"	360	28"
4000 PSI CONCRETE	3/8" DIA X 3 1/2" POWER STUD ANCHOR	1 5/8"	1 7/8"	570	44 1/4"
WOOD DOUGLAS FIR (G=46)	5/16" DIA. X 3 1/2" LAG SCREW	1 1/2"	1"	353	22 1/2"
WOOD SYP (G=55)	5/16" DIA. X 3 1/2" LAG SCREW	1 1/2"	1"	460	35 3/4"

[Signature]
11-18-08

REV.	DESCRIPTION	ECO	DATE	ECO

SCALE: NONE
DRAWN BY: G. WEDEKIND
CHECKED BY: G. WEDEKIND
DATE: 01/04/08

RAYNOR
1101 EAST RIVER ROAD
DIXON, IL 61021

TITLE:
SPEC. WINDLOAD DECADE II
18'-0" WIDE MAX. DOOR WIDTH

NO. P-3303

SHEET 3 OF 3
REV C