



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: Showcase/Masterpiece/TC200 18' wide Steel Sectional Garage Door

APPROVAL DOCUMENT: Drawing No. **P-3309**, titled "Spec. Wind Load Showcase/Masterpiece/TC200 18'-0" wide max. door width", sheets 1 through 3 of 3, dated 01/04/08, with last revision B 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.**



Carlos M. Utrera
 12/1/08

NOA No. 08-0709.10
 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-3309**, titled "Spec. Wind Load Showcase/Masterpiece/TC200 18'-0" wide max. door width", sheets 1 through 3 of 3, dated 01/04/08, with last revision B 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' Showcase/Masterpiece/TC200 Sectional Steel Garage Door, prepared by Hurricane Test Laboratory, LLC, Test Report No. **G493-0107-08**, 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' Showcase/Masterpiece/TC200 Sectional Steel Garage Door, prepared by Hurricane Test Laboratory, LLC, Test Report No. **G493-0205-08**, dated 03/13/08, 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).



12/1/08

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 08-0709.10

Expiration Date: December 24, 2013
Approval Date: December 24, 2008

Raynor Garage Doors

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

1. Test report on Surface Burning Characteristics, per ASTM E84 of Type IX EPS, Report No. **3147467SAT-001**, prepared by Intertek Testing Services, NA, Inc., dated 04/10/08, signed by Chris Bowness, P.E.
2. Test report on Self-Ignition Temperature per ASTM D1929 of Type IX EPS, prepared by Intertek Testing Services, NA, Test Report No. **3147467SAT-002**, dated 06/12/08, signed by Chris Bowness, P.E.
3. Notice of Acceptance No. **07-1107.08**, issued to Dyplast Products LLC., for their EPS Block Type Insulation, approved on 02/28/08, and expiring on 01/11/12.

F. STATEMENTS

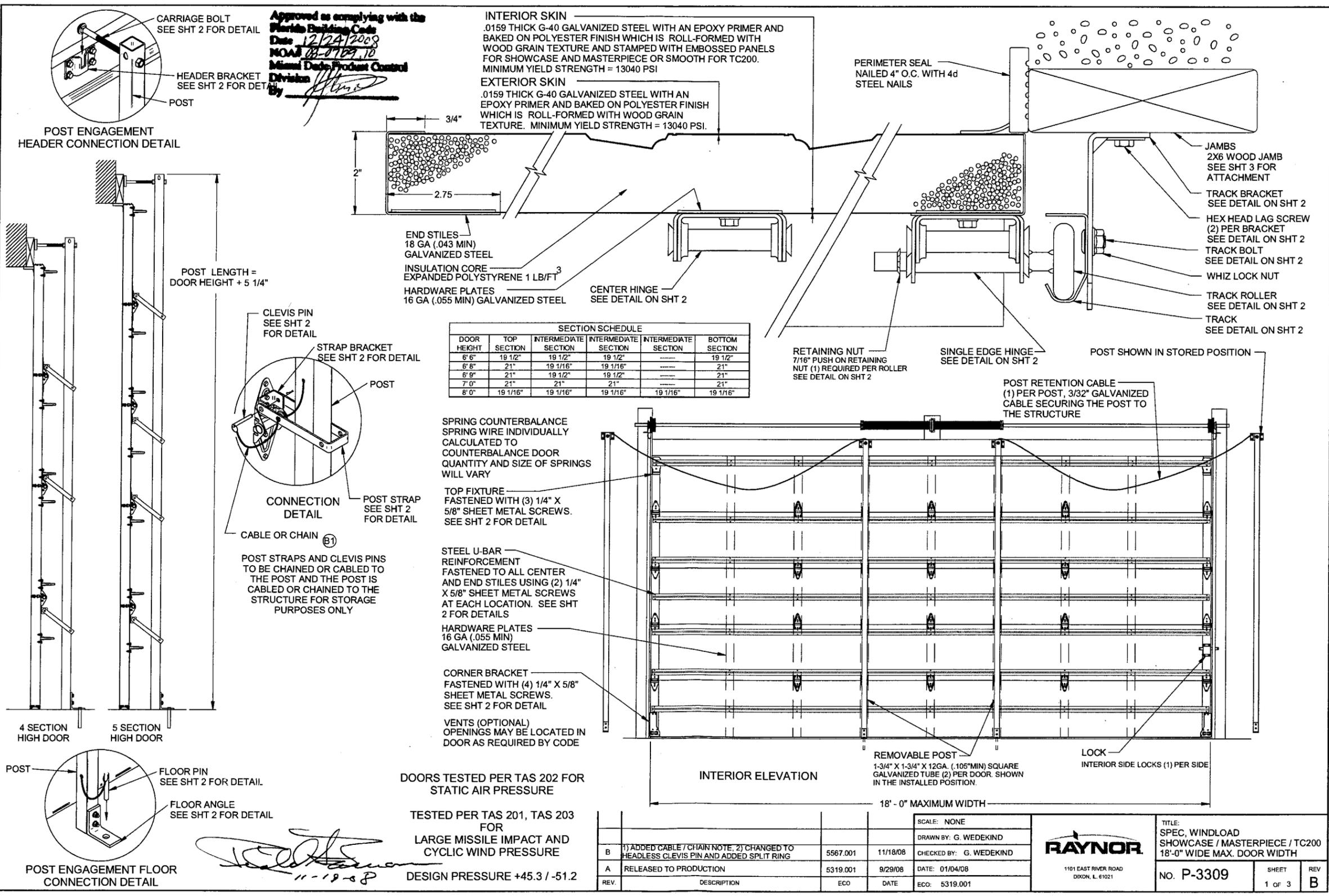
1. Statement letter of code conformance issued by Wendler Engineering Services, Inc., dated 05/19/08, signed and sealed by Richard A. Baumann, P.E.
2. Statement letter of no financial interest issued by Wendler Engineering Services, Inc., dated 05/19/08, signed and sealed by Richard A. Baumann, P.E.



12/1/08

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 08-0709.10

Expiration Date: December 24, 2010
Approval Date: December 24, 2008



Approved as complying with the
Florida Building Code
 Date: 12/24/2008
 NOAJ 08-0769.10
 Miami Dade Product Control
 Division

INTERIOR SKIN
 .0159 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 FOR SHOWCASE AND MASTERPIECE OR SMOOTH FOR TC200. MINIMUM YIELD STRENGTH = 13040 PSI

EXTERIOR SKIN
 .0159 THICK G-40 GALVANIZED STEEL WITH AN EPOXY PRIMER AND BAKED ON POLYESTER FINISH WHICH IS ROLL-FORMED WITH WOOD GRAIN TEXTURE. MINIMUM YIELD STRENGTH = 13040 PSI.

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"	19 1/2"
6'8"	21"	19 1/16"	19 1/16"	19 1/16"	21"
6'9"	21"	19 1/2"	19 1/2"	19 1/2"	21"
7'0"	21"	21"	21"	21"	21"
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 DETAIL

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

HARDWARE PLATES
 16 GA (.055 MIN) GALVANIZED STEEL

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

[Signature]
 11-19-08

REV.	DESCRIPTION	ECO	DATE	ECO
B	1) ADDED CABLE / CHAIN NOTE, 2) CHANGED TO HEADLESS CLEVIS PIN AND ADDED SPLIT RING	5567.001	11/18/08	
A	RELEASED TO PRODUCTION	5319.001	9/29/08	

SCALE: NONE

DRAWN BY: G. WEDEKIND

CHECKED BY: G. WEDEKIND

DATE: 01/04/08

ECO: 5319.001

RAYNOR

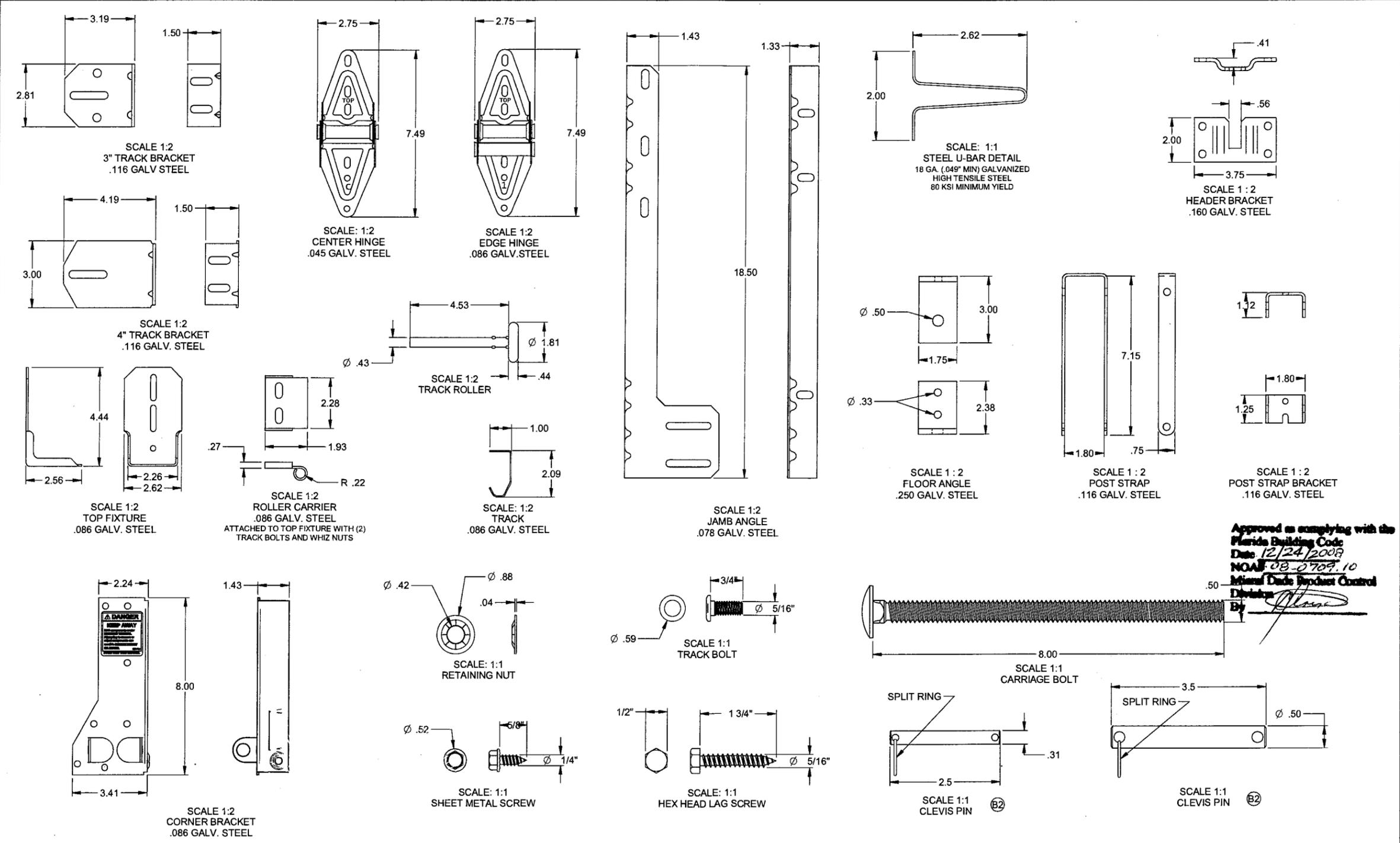
1101 EAST RIVER ROAD
 DIXON, L. 61021

TITLE:
 SPEC. WINDLOAD
 SHOWCASE / MASTERPIECE / TC200
 18'-0" WIDE MAX. DOOR WIDTH

NO. P-3309

SHEET 1 OF 3

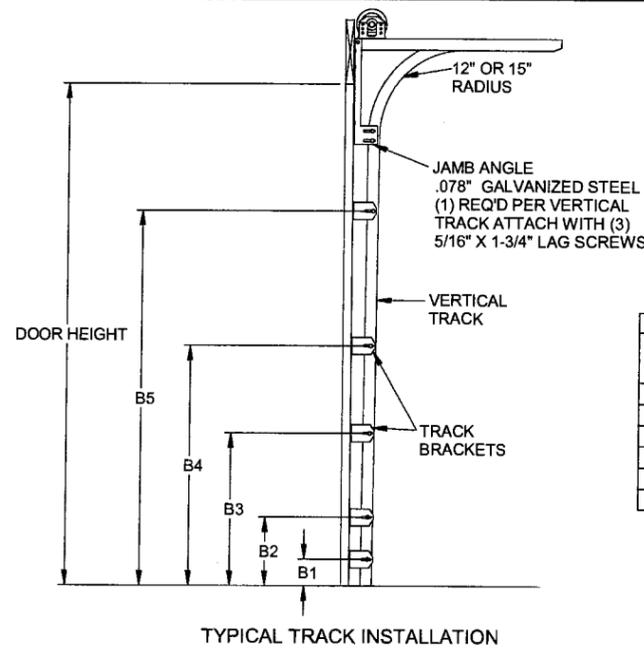
REV B



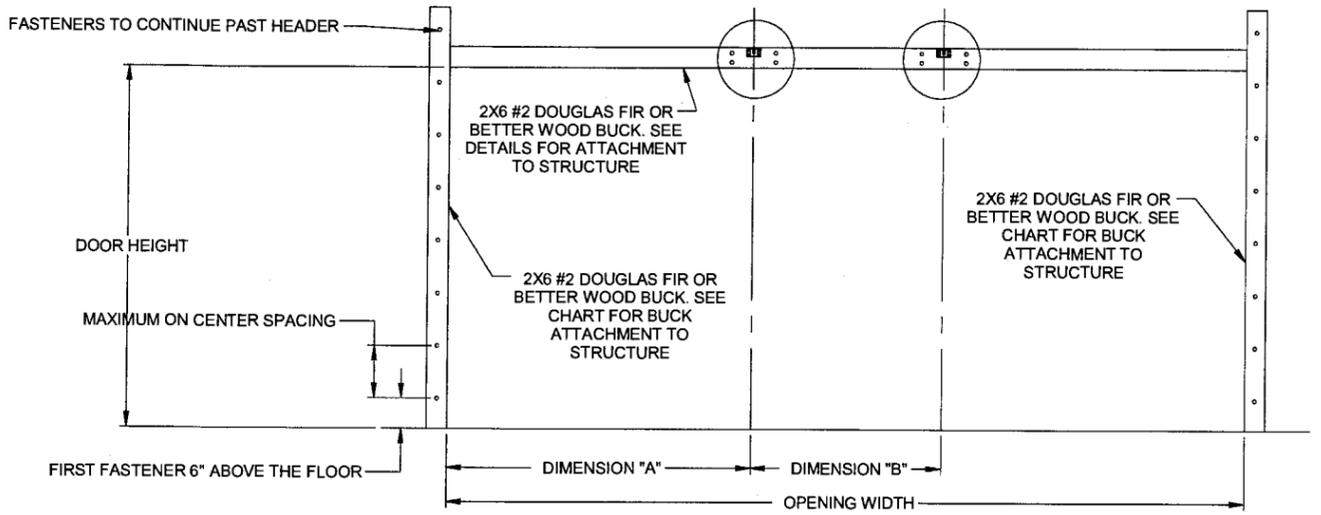
Approved as complying with the
 Florida Building Code
 Date: 12/24/2008
 NOA# 08-0709.10
 Miami Dade Product Control
 Division
 By: *[Signature]*

[Signature]
 11-19-08

SCALE: NONE	 1101 EAST RIVER ROAD DIXON, IL 61021	TITLE: SPEC, WINDLOAD SHOWCASE /TC200 18'-0" WIDE MAX. DOOR WIDTH	
DRAWN BY: G. WEDEKIND		NO. P-3309	SHEET 2 OF 3
CHECKED BY: G. WEDEKIND			
DATE: 01/04/08		ECO: 5319.001	
REV.	DESCRIPTION	ECO	DATE



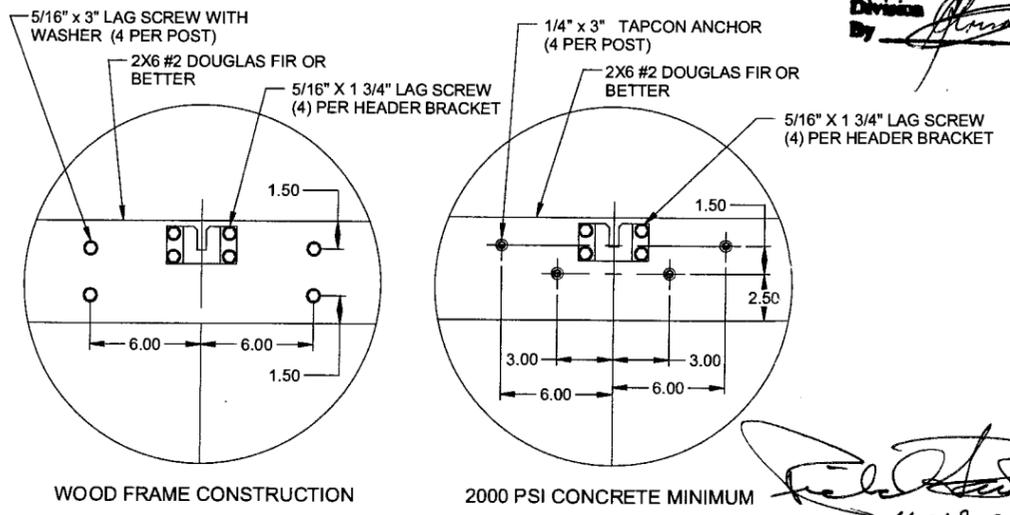
TRACK BRACKET SPACING					
DOOR HEIGHT	B1	B2	B3	B4	B5
6' - 6"	3"	12"	30"	48"	-----
6' - 8"	3"	12"	30"	48"	-----
6' - 9"	3"	12"	30"	48"	-----
7' - 0"	3"	12"	30"	48"	63"
7' - 6"	3"	12"	30"	48"	69"
8' - 0"	3"	12"	30"	48"	75"



- 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	DOOR HEIGHT	LOAD PER JAMB		LOAD AT POST		DIMENSION "A"	DIMENSION "B"	DESIGN PRESSURE	DESIGN PRESSURE	TOTAL DOOR	
		POS	NEG	POS	NEG					POS	NEG
10	7	450	509	568	642	34.06	51.88	45.3	51.2	3171	3584
	7.5	482	545	608	688					3398	3840
	8	514	581	649	733					3624	4096
12	7	648	733	827	909	49.06	45.88	45.3	51.2	3805	4301
	7.5	695	785	872	960					4077	4608
	8	741	837	924	1011					4349	4915
14	7	767	867	966	1066	58.06	51.88	45.3	51.2	4439	5018
	7.5	822	929	1028	1128					4757	5376
	8	877	991	1090	1190					5074	5734
15	7	807	912	1011	1111	61.06	57.88	45.3	51.2	4757	5376
	7.5	864	977	1076	1176					5096	5760
	8	922	1042	1141	1241					5436	6144
16	7	965	1076	1176	1276	73.06	45.88	45.3	51.2	5074	5734
	7.5	1034	1169	1268	1368					5436	6144
	8	1103	1247	1346	1446					5798	6554
17	7	1045	1181	1276	1376	79.06	45.88	45.3	51.2	5391	6093
	7.5	1119	1265	1360	1460					5776	6528
	8	1194	1349	1444	1544					6161	6963
18	7	1084	1225	1320	1420	82.06	51.88	45.3	51.2	5708	6451
	7.5	1162	1313	1408	1508					6116	6912
	8	1239	1400	1495	1595					6523	7373

Approved as complying with the Florida Building Code
 Date: 12/24/2003
 NOA# 68 0709.10
 Miami Dade Product Control Division
 By: [Signature]



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

SCALE: NONE	<p>1101 EAST RIVER ROAD DIXON, L. 61021</p>	TITLE: SPEC, WINDLOAD SHOWCASE /TC200 18'-0" WIDE MAX. DOOR WIDTH	
DRAWN BY: G. WEDEKIND		NO. P-3309	SHEET 3 OF 3
CHECKED BY: G. WEDEKIND			
DATE: 01/04/08		ECCO: 5319.001	