



**DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)**

**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/pera/

**Raynor Garage Doors
1101 East River Road, P.O. Box 448
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 and accepted by Miami-Dade County PERA-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. PERA 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: Showcase / Masterpiece / TC200 Steel Sectional Garage Door up to 18'-0" Wide

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 01/04/2008, with last revision B dated 11/18/2008, prepared by the manufacturer, signed and sealed by Richard A. Baumann, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: A permanent label with the manufacturer's name or logo, manufacturing address, model 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 revises NOA # 08-0709.10 and 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]
10/23/2012

NOA No. 12-0517.09
Expiration Date: December 24, 2013
Approval Date: August 2, 2012
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS “Submitted under NOA # 08-0709.10”

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 01/04/2008, with last revision B dated 11/18/2008, prepared by the manufacturer, signed and sealed by Richard A. Baumann, P.E.

B. TESTS “Submitted under NOA # 10-0420.03”

1. Test report on Forced Entry Resistance Test, per FBC 2411 3.2.1, TAS 202-94 of two 16’x 7’ Sectional Garage Doors, prepared by Hurricane Test Laboratory, LLC, Test Report No. **G493-0706-10**, dated 08/10/2010, signed and sealed by Vinu J. Abraham, P.E.

“Submitted under NOA # 08-0709.10”

2. 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 03/12/2008, signed and sealed by Vinu J. Abraham, P.E.
3. 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 03/13/2008, signed and sealed by Vinu J. Abraham, P.E.
4. Test report on Tensile Test per ASTM E8, of steel sheet, prepared by Certified Testing Laboratories, Test Report No. 0156Q, dated 04/01/2008, signed and sealed by Ramesh Patel, P.E.
5. Test report on Salt Spray per ASTM B117 of painted G40 galvanized painted steel, prepared by Wendler Engineering Services, Inc., dated 09/25/2008, signed and sealed by Richard A. Baumann, P.E.



07/23/2012

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 12-0517.09

Expiration Date: December 24, 2013
Approval Date: August 2, 2012

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS “Submitted under NOA # 08-0709.10”

1. Jamb attachment verification calculations, prepared by Wendler Engineering Services, Inc., dated 05/16/2008, signed and sealed by Richard A. Baumann, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA)

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 04/10/2008, 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 06/12/2008, signed by Chris Bowness, P.E.
3. Notice of Acceptance No. **11-0926.07**, issued to Dyplast Products LLC., for their EPS Block Type Insulation, approved on 11/10/2011, and expiring on 01/11/2017.

F. STATEMENTS

1. Statement letter of code conformance to 2007 and 2010 FBC, issued by Wendler Engineering Services, Inc., dated 05/14/2012, signed and sealed by Richard A. Baumann, P.E.

“Submitted under NOA # 08-0709.10”

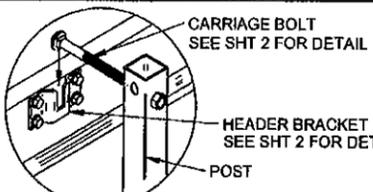
2. Statement letter of code conformance issued by Wendler Engineering Services, Inc., dated 05/19/2008, signed and sealed by Richard A. Baumann, P.E.
3. Statement letter of no financial interest issued by Wendler Engineering Services, Inc., dated 05/19/2008, signed and sealed by Richard A. Baumann, P.E.



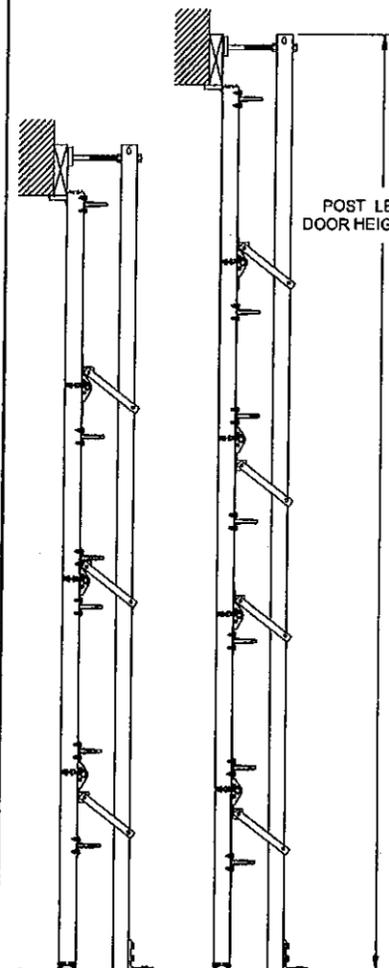
07/23/2012

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 12-0517.09

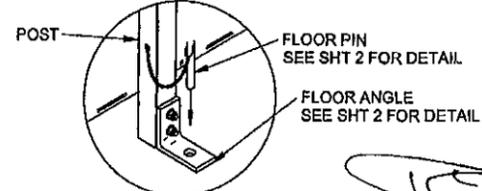
Expiration Date: December 24, 2013
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POST ENGAGEMENT HEADER CONNECTION DETAIL



4 SECTION HIGH DOOR 5 SECTION HIGH DOOR

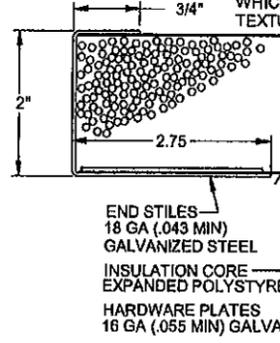


POST ENGAGEMENT FLOOR CONNECTION DETAIL

Approved as complying with the Florida Building Code
 Date 12/24/2008
 NOAJ 01-0782-10
 Miami Dade Product Control Division
 By *[Signature]*

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.



CENTER HINGE SEE DETAIL ON SHT 2

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

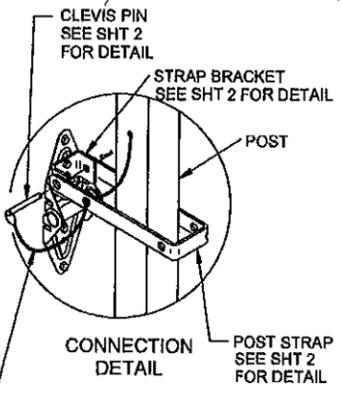
CORNER BRACKET
 FASTENED WITH (4) 1/4" X 5/8" SHEET METAL SCREWS. SEE SHT 2 FOR DETAIL

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



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

PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No 12-0517.09
 Expiration Date 12/24/2013
 By *[Signature]*
 Miami Dade Product Control

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

JAMBS
 2X6 WOOD JAMB SEE SHT 3 FOR ATTACHMENT

TRACK BRACKET SEE DETAIL ON SHT 2

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

TRACK BOLT SEE DETAIL ON SHT 2

WHIZ LOCK NUT

TRACK ROLLER SEE DETAIL ON SHT 2

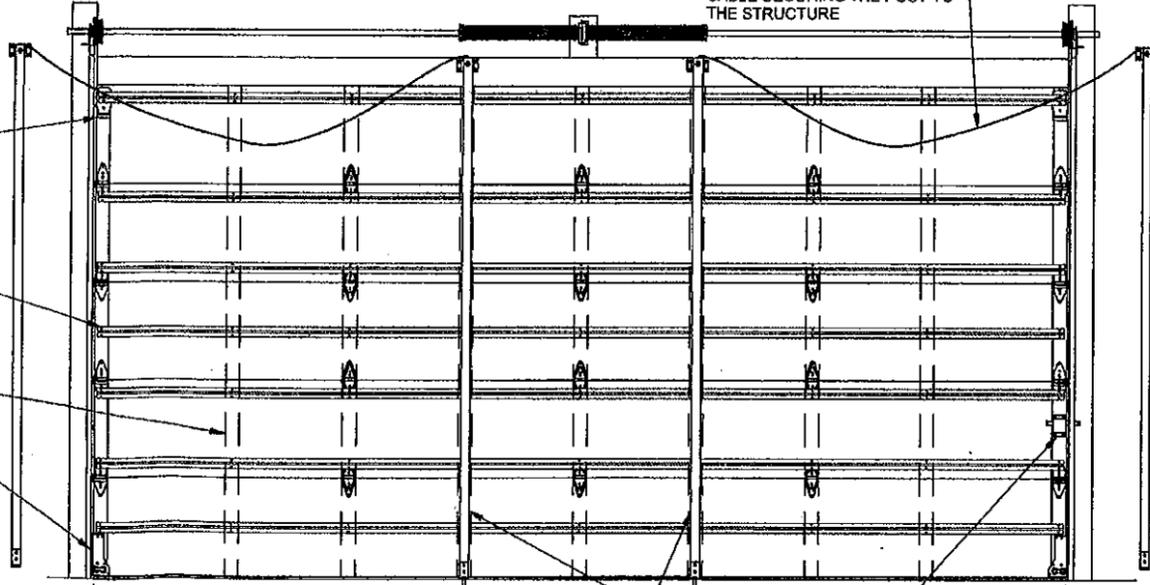
TRACK SEE DETAIL ON SHT 2

RETAINING NUT 7/16" PUSH ON RETAINING NUT (1) REQUIRED PER ROLLER SEE DETAIL ON SHT 2

SINGLE EDGE HINGE SEE DETAIL ON SHT 2

POST SHOWN IN STORED POSITION

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
B	1) ADDED CABLE / CHAIN NOTE. 2) CHANGED TO HEADLESS CLEVIS PIN AND ADDED SPLIT RING	5587.001	11/18/08	
A	RELEASED TO PRODUCTION	5319.001	9/29/08	

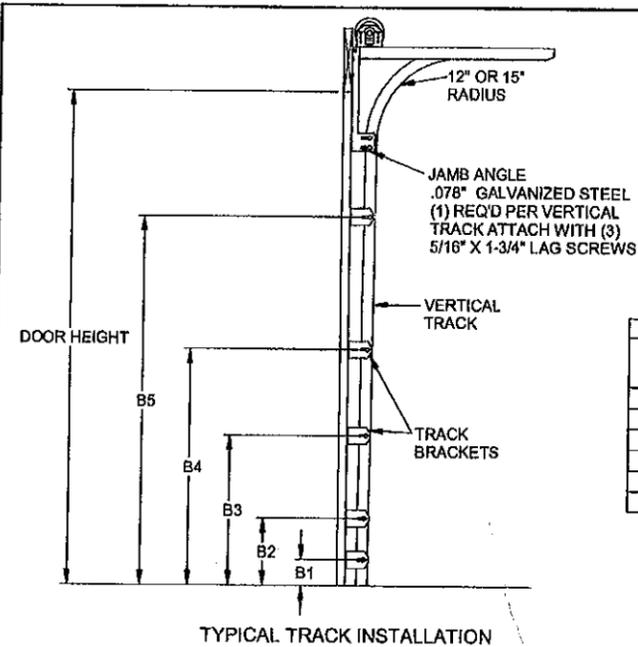
SCALE: NONE
DRAWN BY: G. WEDEKIND
CHECKED BY: G. WEDEKIND
DATE: 01/04/08
ECO: 5319.001



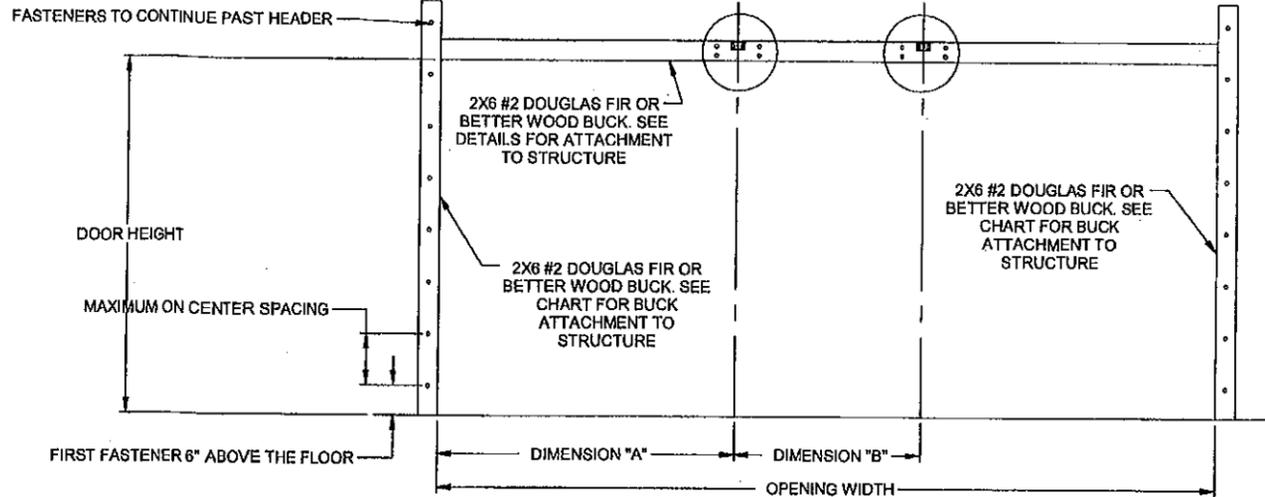
101 EAST RIVER ROAD
 DEER, L. 61021

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

NO. P-3309 SHEET 1 of 3 REV B



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"



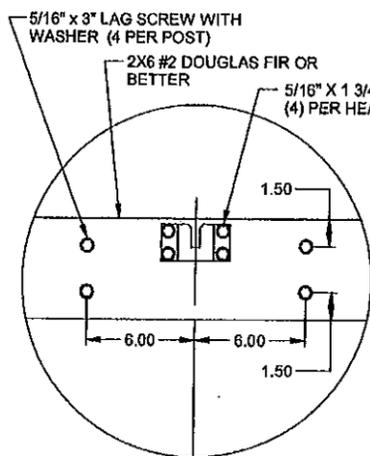
PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 12-0517.09
 Expiration Date 12/24/2013
 By *[Signature]*
 Miami Dade Product Control

JAMB ATTACHMENT NOTES

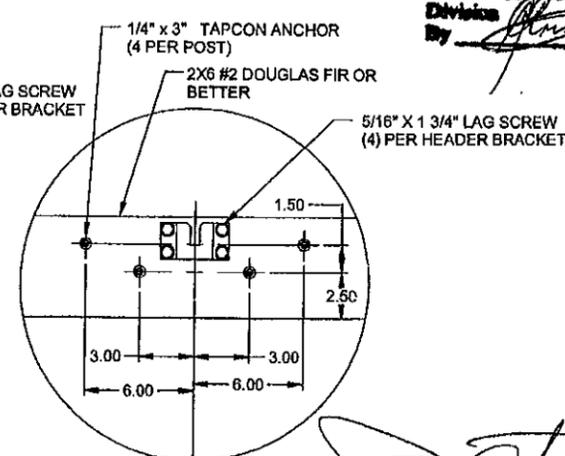
- 1/4" DIAMETER ANCHORS REQUIRE 5/8" MIN. O.D. STEEL WASHER.
- 5/16" AND 3/8" DIAMETER FASTENERS REQUIRE 7/8" MIN O.D. STEEL WASHER.
- FASTENER SPACING BASED ON 18" WIDE DOOR.
- DESIGN OF THE SUPPORTING STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE BUILDING DESIGNER AND SHALL BE DESIGNED FOR THE LOADS LISTED ON THIS DRAWING.

Approved as complying with the
 Florida Building Code
 Date 12/24/2013
 MOA# 080709.10
 Miami Dade Product Control
 Division *[Signature]*

DOOR WIDTH FT	DOOR HEIGHT FT	LOAD PER JAMB		LOAD AT POST		DIMENSION "A" INCHES	DIMENSION "B" INCHES	DESIGN PRESSURE POS	DESIGN PRESSURE NEG	TOTAL DOOR	
		POS	NEG	POS	NEG					POS	NEG
10	7	460	509	588	642	34.06	51.88	45.3	51.2	3171	3584
	8	514	581	649	733					3388	3840
12	7	648	733	827	909	49.06	45.88	45.3	51.2	3805	4301
	8	741	837	917	1015					4077	4608
14	7	767	867	926	1015	58.06	51.88	45.3	51.2	4349	4915
	8	877	991	1030	1115					4439	5018
15	7	807	912	986	1066	61.06	57.88	45.3	51.2	4757	5376
	8	922	1042	1099	1185					5096	5760
16	7	965	1077	1146	1226	73.06	45.88	45.3	51.2	5436	6144
	8	1103	1247	1298	1383					5074	5734
17	7	1045	1181	1226	1298	79.06	45.88	45.3	51.2	5438	6144
	8	1194	1349	1394	1466					5798	6554
18	7	1084	1225	1266	1313	82.06	51.88	45.3	51.2	5391	6093
	8	1239	1400	1441	1488					5778	6528



WOOD FRAME CONSTRUCTION



2000 PSI CONCRETE MINIMUM

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"

REV.	DESCRIPTION	ECO	DATE

SCALE: NONE
 DRAWN BY: G. WEDEKIND
 CHECKED BY: G. WEDEKIND
 DATE: 01/04/08
 ECO: 5319.001



TITLE: SPEC, WINDLOAD SHOWCASE /TC200 18'-0" WIDE MAX. DOOR WIDTH
 No. P-3309
 SHEET 3 OF 3
 REV B